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LCD TV

SERVICE MANUAL

CHASSIS : AL-04CA

MODEL : 32LP1DC-UA

CAUTION

BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by  in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer** should always be used during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

X-RAY Radiation

Warning:

The source of X-RAY RADIATION in this TV receiver is the High Voltage Section and the LCD PANEL.

For continued X-RAY RADIATION protection, the replacement panel must be the same type panel as specified in the Replacement Parts List.

To determine the presence of high voltage, use an accurate high impedance HV meter.

Adjust brightness, color, contrast controls to minimum.

Measure the high voltage.

The meter reading should indicate

$23.5 \pm 1.5\text{KV}$: 14-19 inch, $26 \pm 1.5\text{KV}$: 19-21 inch,

$29.0 \pm 1.5\text{KV}$: 25-29 inch, $30.0 \pm 1.5\text{KV}$: 32 inch

If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between $1\text{M}\Omega$ and $5.2\text{M}\Omega$.

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

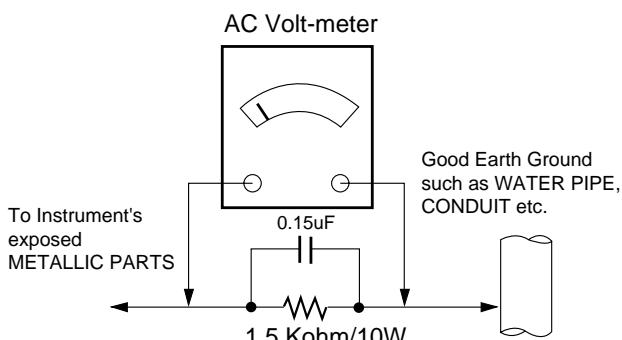
Connect $1.5\text{K}/10\text{watt}$ resistor in parallel with a $0.15\mu\text{F}$ capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA .

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the **SAFETY PRECAUTIONS** on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
 - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
 - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.

CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".

3. Do not spray chemicals on or near this receiver or any of its assemblies.

4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)

CAUTION: This is a flammable mixture.

Unless specified otherwise in this service manual, lubrication of contacts is not required.

5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.

6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.

7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.

Always remove the test receiver ground lead last.

8. *Use with this receiver only the test fixtures specified in this service manual.*

CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called **Electrostatically Sensitive (ES) Devices**. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the

unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range of 500 °F to 600 °F.

2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.

3. Keep the soldering iron tip clean and well tinned.

4. Thoroughly clean the surfaces to be soldered. Use a small wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.

5. Use the following unsoldering technique

- a. Allow the soldering iron tip to reach normal temperature. (500 °F to 600 °F)

- b. Heat the component lead until the solder melts.

- c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.

CAUTION: Work quickly to avoid overheating the circuitboard printed foil.

6. Use the following soldering technique.

- a. Allow the soldering iron tip to reach a normal temperature (500 °F to 600 °F)

- b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.

- c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.

CAUTION: Work quickly to avoid overheating the circuit board printed foil.

- d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor

Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device

Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor

Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.

CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.

CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1. Application range

This specification is applied to AL-04CA chassis.

2. Requirement for Test

Testing for standard of each part must be followed in below condition.

- (1) Temperature: $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (CST $40^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
- (2) Humidity: $65\% \pm 10\%$
- (3) Power: Standard input voltage (AC 100-260V, 50/60Hz)
- (4) Measurement must be performed after heat-run more than 15min.
- (5) Adjusting standard for this chassis is followed a special standard.

3. General Specification

No	Item	Specification	Remark
1.	Receiving System	ATSC/ 64 & 256 QAM/NTSC-M	Slim-VSB
2.	Available Channel	VHF : 02~13 UHF : 14~69 CATV: 01~135 DTV: 02-69	
3.	Input Voltage	AC 100 ~ 260V 50/60Hz	
4.	Market	North America	
5.	Screen Size	32 inch wide	
6.	Aspect Ratio	16:9	
7.	Tuning System	FS	
8.	LCD Module	LC320W01-A6K3 (1366x768)	LG Philips LCD
9.	Operating Environment	Temp. : $0 \sim 40$ deg Humidity : $10 \sim 90$ %	
10.	Storage Environment	Temp. : $-20 \sim 50$ deg Humidity : $10 \sim 90$ %	

4. Feature and Function

No	Item	Specification		Remark
1.	Feature	AV Input / Out	2	Video1,2
		RGB Input	2	Analog RGB1, Analog RGB2
		S-Input	2	S-Input
		DVI Input	1	DVI Input
		Y, Pb, Pr Input	2	Component 1, 2
		SPDIF Out	1	SPDIF Out
		SPDIF Input	1	SPDIF Input
		RS-232C	1	S/W Download
		Internal SPK Out	1	Mono, < 2W
2.	Key	Local Key	TV/Video, Menu, OK(■), Volume(◀, ▶), Channel (▲, ▼), Power (Main)	

No	Item	Specification	Remark
3.	SETUP	EZ Scan	Auto Channel Search
		CH. Edit	CH. Add/Delete
		DTV Signal	Bad/Normal/Good
		Ch. Label	CH. Logo
		Main Input	DTV/Analog/Video1/Video2/Component1/ Component2/RGB-DTV/DVI-DTV
		Sub Input	DTV/Analog/Video1/Video2
		Front Display	Off/On
		SET ID	1 - 99
4.	Video	EZ Picture	Off/Normal/Day Light/Night Time/ Movie/Video Game/Sports
		User Control	Contrast/Brightness/Color/Sharpness/Tint
		XD	Off/On
		Color Temperature	Warm/Medium/ Cool
		Video Preset	Factory Preset
5.	Audio	Audio Language	English/Spanish/French
		EZ SoundRite	Off/On
		EZ Sound	Off/Normal/Stadium/Theater/Music
		User Control	Balance/Treble/Bass
		Front Surround	Off/3D EchoSound System/SRS TruSurround XT
		TV Speaker	Off/On
6.	Time	Auto Clock	Off/On/Time Zone
		Manual Clock	Year/Data/Time
		Off Timer	Off/On/Time
		On Timer	Off/On/Time/Ch./Vol
		Sleep Timer	Off/10 min/20 min/30 min/60 min/90 min/120 min/180 min/240 min
		Auto Off	Off/On
7.	Option	Aspect Ratio	Set By Program/4:3/16:9/Horizon/Zoom1/ Zoom2/Cinema Zoom
		Caption	Off/EZ Mute/On
		Caption Mode	CC1/CC2/CC3/CC4/Text1/Text2/Text3/Text4
		Caption Option	Style/Size/Font/Text Color/Text Opacity/Bg Color/Bg Opacity/Edge Type/Edge Color
		Language	English/Espanol/Francais
		Cinema	Off/On
		Demo	Ez Demo/XD Demo
8.	Lock	Lock System	Off/On
		Set Password	New/Confirm
		Block Ch.	O
		Movie Rating	G/PG/PG-13/R/NC-17/X
		TV Rating-Children	Age/Fantasy Violence
		TV Rating-General	Age/Dialogue/Language/Sex/Violence
		Aux.Block	Video1/Video2/Component1/Component2/RGB1/RGB2/DVI
9.	Etc.	Comb Filter	3D Comb(main), 4H Comb(sub)
		Remocon	LG code

5. External Input Format

Component Video Input (Y, CB/PB, CR/PR)

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock	Proposed
1.	640x480	15.73	60.00		SDTV ,DVD 480I
2.	704x480	31.47	59.94		SDTV 480P
3.	1280x720	45.00	60.00		HDTV 720P
4.	1280x720	44.96	59.94		HDTV 720P
5.	1920x1080	33.75	60.00		HDTV 1080I
6.	1920x1080	33.72	59.94		HDTV 1080I

RGB Input (PC/DTV)

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock	Proposed
	PC				
7.	640*350	31.468	70.09	25.17	EGA
8.	720*400	37.927	85.03	35.50	DOS
9.	640*480	31.469	59.94	25.17	VESA(VGA)
10.	640*480	37.861	72.80	31.50	VESA(VGA)
11.	640*480	37.500	75.00	31.50	VESA(VGA)
13.	800*600	35.156	56.25	36.00	VESA(SVGA)
14.	800*600	37.879	60.31	40.00	VESA(SVGA)
15.	800*600	48.077	72.18	50.00	VESA(SVGA)
16.	800*600	46.875	75.00	49.50	VESA(SVGA)
18.	1024*768	48.363	60.00	65.00	VESA(XGA)
19.	1024*768	56.476	70.06	75.00	VESA(XGA)
20.	1024*768	60.023	75.02	78.75	VESA(XGA)
	DTV				
21.	704*480	31.47	59.94		SDTV 480P
22.	1280*720	45.00	60.00		HDTV 720P
23.	1280*720	44.96	59.94		HDTV 720P
24.	1920*1080	33.75	60.00		HDTV 1080I
25.	1920*1080	33.72	59.94		HDTV 1080I

DVI Input (PC/DTV)

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock	Proposed	
						DDC
	PC					
26.	640*350	31.468	70.09	25.17	EGA	O
27.	720*400	37.927	85.03	35.50	DOS	O
28.	640*480	31.469	59.94	25.17	VESA(VGA)	O
29.	640*480	37.861	72.80	31.50	VESA(VGA)	O
30.	640*480	37.500	75.00	31.50	VESA(VGA)	O
37.	1024*768	48.363	60.00	65.00	VESA(XGA)	O
38.	1024*768	56.476	70.06	75.00	VESA(XGA)	O
39.	1024*768	60.023	75.02	78.75	VESA(XGA)	O
	DTV					
40.	704*480	31.47	59.94		SDTV 480P	
41.	1280*720	45.00	60.00		HDTV 720P	
42.	1280*720	44.96	59.94		HDTV 720P	
43.	1920*1080	33.75	60.00		HDTV 1080I	
44.	1920*1080	33.72	59.94		HDTV 1080I	

6. POWER

No	Item	Min	Typ	Max	Unit	Remark
1.	AC Power Operating Voltage	90		264	V	
2.	DC Voltage, LCD Panel Drive	11.4	12.0	12.6	V	
3.	DC Voltage, Inverter	23.4	24.0	24.6	V	
4.	DC Voltage, Sound AMP	17.4	18.0	18.6	V	
5.	DC Voltage, Stand By	4.6	5.0	5.4	V	
6.	DC Voltage, Scaler(HD2)	3.1	3.3	3.5	V	I/O port supply
7.	DC Voltage, Scaler(HD2)	1.6	1.8	1.9		Internal core supply
8.	DC Voltage, ADC	3.1	3.3	3.5	V	AD9883
9.	DC Voltage, VCD 5 V	4.7	5	5.3	V	VPX3226
10.	DC Voltage, VCD 3.3V	3.1	3.3	3.5	V	
11.	DC Voltage, Micom	4.7	5	5.3	V	
12.	DC Voltage, Tuner	4.75	5.00	5.25	V	
	DC Voltage, Tuner	31.5	33.0	34.5	V	

7. External Interface

- AV Input

No	Item	Min	Typ	Max	Unit	Remark
6.	AV Audio In S/N, L/R	43.0			dB	
7.	AV Audio In Frequency Response, Low	80.0			Hz	
8.	AV Audio In Frequency Response, High	7.0	10.0	15.0	kHz	
9.	AV Audio In Distortion			2.0	%	
10.	AV Audio In Max Distortion			10.0	%	
11.	AV Audio In Level, L/R	0.3	0.4	0.5	Vrms	
12.	AV Audio In Crosstalk, L/R	40.0			dB	
18.	AV Audio Dynamic Range	2.00			Vpp	
19.	Component Video Input Level (Y, CB/PB, CR/PR)	0.6	0.7	0.8	Vpp	75 ohm (480i,480p,720p,1080i)
20.	RGB/HV Input Level	0.6	0.7	0.8	Vpp	75 ohm

8. General Specifications

No	Item	Min	Typ	Max	Unit	Remark
1	Active Screen Size		800.4(diagonal)		mm	29.53 inches
2	Outline Dimension		760.0(H)x450.0(V)x48.0(D)		mm	
3	Pixel Pitch		170.25 μ m x 510.75 μ m xRGB		μ m	
4	Pixel Format		1366(H)x768(V) stripe arrangement			
5	Color Depth		8bit 16.7		Mbit	
6	Luminance ,White		500 (center 1 point typ)		cd/m ²	
7	Viewing Angle (CR>10)		R/L 176(Typ),U/P 176(Typ)		degree	
8	Power Consumption		88.7		Watt	
9	Weight		7.2		kg	
10	Display Operating Mode		Transmissive mode ,normally black			
11	Surface Treatment		Hard coating (3H)			
12	Altitude	Operating	0 - 14,000		feet	4,267.2 m
		Storage/Shipment	0 - 40,000		feet	12,192.0 m

9. Electro Optical Characteristic Specifications

No	Item		Min	Typ	Max	Unit	Remark	
1	Contrast Ratio		350	500		C	It measured at center point	
2	Surface Luminance, White		400	500		Cd/m ²	Full white	
3	Luminance Variation				1.3			
4	Response Time	Tr (Rising time)		8	12	msec	Full Pattern	
5	Color coordinate	RED	X	0.640	Typ -0.03			
			Y					
		GREEN	X	0.343				
			Y	0.275				
		BLUE	X	0.605				
			Y	0.145				
		WHITE	X	0.065				
			Y	0.284				
				0.295				
6	Viewing Angle (CR>10)	X axis right($\phi =0$)	85	88		degree		
		X axis left($\phi =180$)	85	88				
		Yaxis up ($\phi =90$)	85	88				
		Z axis down($\phi =270$)	85	88				

10. Mechanical specification

No	Item	Content			Remark
1	Product Dimension	Width (W)	Length (D)	Height (H)	
		874	109	538	
		874	186	580.5	With Stand
2	Product Weight	24.1Kg			

ADJUSTMENT INSTRUCTION

1. Application Object

This instruction is for the application to the LCD TV.

2. Designation.

2.1 As this chassis is a non-charging type of chassis for insulation of the power supply part, it may not use an insulation type of transformer but it is better to adjust after operating an insulation type of transformer between the power supply line and the input side of chassis.

2.2 Adjustment must be done according to accurate order. However, order may be changed considering mass production.

2.3 Adjustment must be done in environment of ambient temperature of $25 \pm 5^{\circ}\text{C}$, RH $65 \pm 10\%$ unless specially designated.

2.4 For adjustment, input voltage of the receiver must be maintained at 110V, 60Hz.

2.5 The receiver must be maintained in preliminary operation status for about 15 minutes before adjustment unless specially designated.

- Perform preliminary operation after receiving 100% White Pattern (06CH).

(Or 3. White Pattern status of Ex-Adjust)

- White Pattern entry method

A) Enter into Ez-Adjust by pressing the ADJ key on the adjustment R/C.

B) 100% FULL WHITE PATTERN appears if pressing the OK (■) key after selecting the 3.WHITE PATTERN with the CH + / - KEY.

* It is possible to heat run the set without a separate signal generator in this mode.

Caution : Care must be taken as afterimage phenomena may occur about the black level part of screen If leaving pause image turned on for more than 20 minutes (especially inner digital pattern (13 CH), Cross Hatch Pattern (09CH) with significant black/white contrast).

3. Total Adjustment

3.1 EDID (Extended Display Identification Data) / DDC (Display Data Channel) download

3.1.1 Summary

: This function was created by VESA and is intended to realize "Plug and Play" that the computer automatically communicates with the monitor through mutual change of information and re-configure user environment so than the user can immediately use the computer without providing direct command to the PC or monitor.

3.2 AD9883A-Set Adjustment

3.2.1 Summary

: The AD9883A-Set Adjust is function that the A/D converter automatically sets up optimum blacklevel and gain and compensate RGB deviation.

- DVI EDID Data

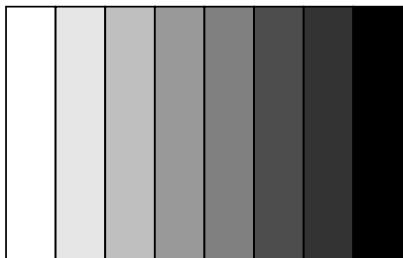
	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	01	01	01	01	01
10	03	0E	01	03	98	6E	3E	96	08	E8	AA	A1	57	49	9C	25
20	10	48	4B	AF	CE	00	31	4A	31	4F	3B	C0	45	40	61	4F
30	01	01	01	01	01	40	C3	1E	00	20	41	00	20	30	10	60
40	13	00	4C	6C	42	00	00	1E	00	00	00	FC	00	4C	47	20
50	4C	43	44	20	20	20	20	20	20	0A	00	00	00	FD	00	38
60	4B	1E	3E	08	00	0A	20	20	20	20	20	20	20	00	00	FC
70	00	33	32	4C	50	31	44	43	20	20	20	20	20	20	00	BE

- RGB EDID Data

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	01	01	01	01	01
10	03	0E	01	03	18	6E	3E	96	08	E8	AA	A1	57	49	9C	25
20	10	48	4B	AF	CE	00	31	4A	31	4F	3B	C0	45	40	61	4F
30	01	01	01	01	01	40	C3	1E	00	20	41	00	20	30	10	60
40	13	00	4C	6C	42	00	00	1E	00	00	00	FC	00	4C	47	20
50	4B	43	44	20	20	20	20	20	20	0A	00	00	00	FD	00	38
60	4B	1E	3E	08	00	0A	20	20	20	20	20	20	20	00	00	FC
70	00	33	32	4C	50	31	44	43	20	20	20	20	20	20	00	3E

3.2.2 Adjustment Method

- A) Enter the 100% Vertical Color Bar Pattern (TVBAR_100) of the 720P Mode supported for entry of component and select entry selection to Component1 or Component2 and then select image to 'Normal'.
- B) After waiting for more than a second after receipt of signal, enter into 'Ez?Adjust' by pressing the ADJ Key on the Adjustment R/C. Adjustment is automatically done if pressing the (+) key after selecting the '1. AD9883A-Set'.
- C) If adjustment is normally completed, 'AD9883£?Set' message is displayed, and if not normally completed, 'AD9883A Setup Error' message is displayed.
- D) If adjustment is completed, exit the adjustment mode by pressing the ADJ key.



<Adjustment Pattern : 720P Vertical Color Bar>

3.3 Color adjustment of main/subsidiary part

Color adjustment of main/subsidiary part is intended to reduce color difference of the main/subsidiary part in the PIP/POP/SPLIT Screen.

- A) After entering inner signal, enter into the 'Ez?Adjust' by pressing the ADJ key of the remote control for adjustment and select the '2.VPX3226' and enter into the Adjustment Mode by pressing the right key (►).
- B) The screen automatically becomes a TV 6CH SPLIT Screen if entering into the Adjustment and a window appears as below.

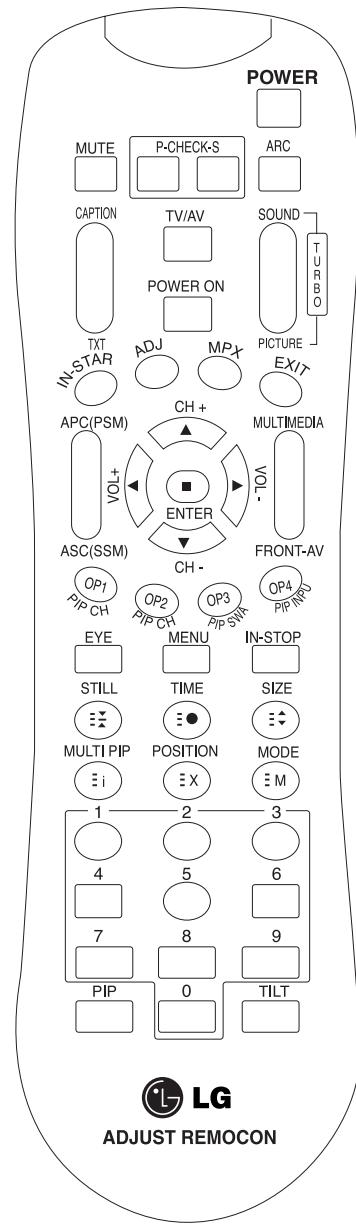
VPX3226 1. Contrast(MAIN) ◀ 31 ► 2. Contrast(Sub) ◀ 31 ►	US 6CH	US 6CH
---	--------	--------

< Screen Adjustment Command Table. (RS-232) >

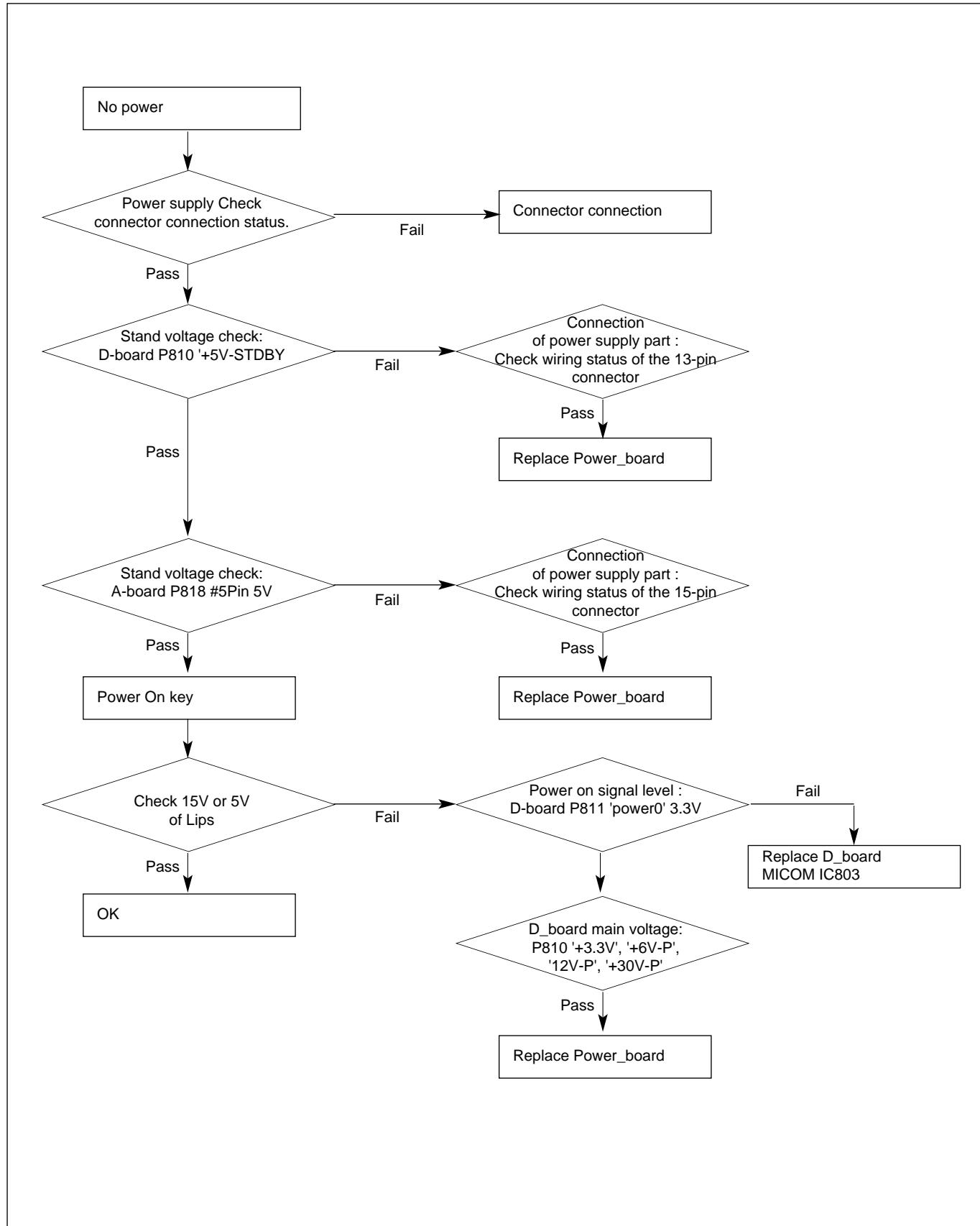
- C) Firstly adjust '1.Contrast (Main)' so that figure of "US 6CH" character of the left main screen is shown mostly clearly and vividly (so that saturation is not done) and set the '2.Contrast(Sub)' to same value. In this case, adjust it by using the volume +/- key.
- D) If adjustment is completed, exit the Adjustment Mode by pressing the ADJ key.

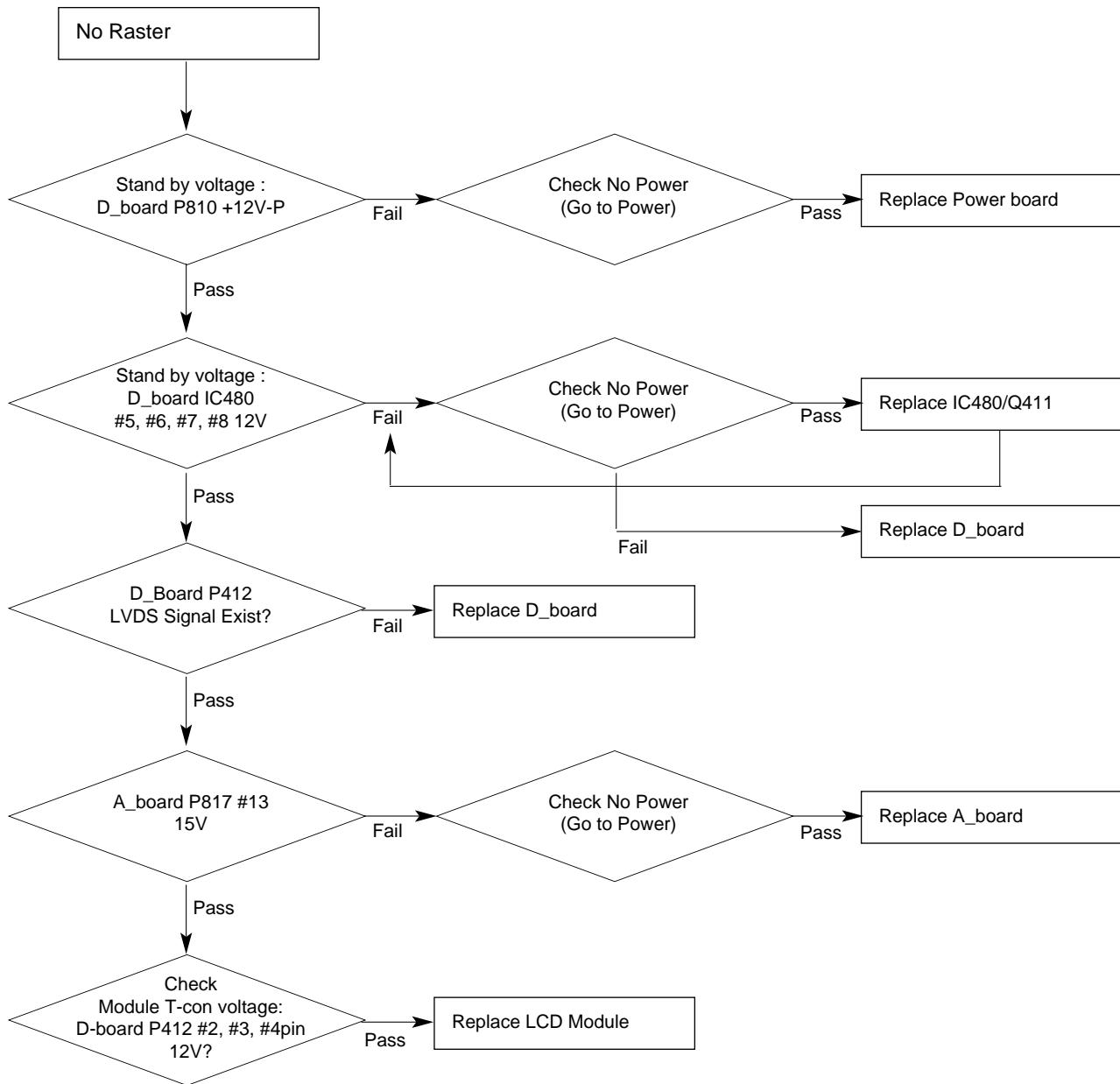
SVC REMOCON

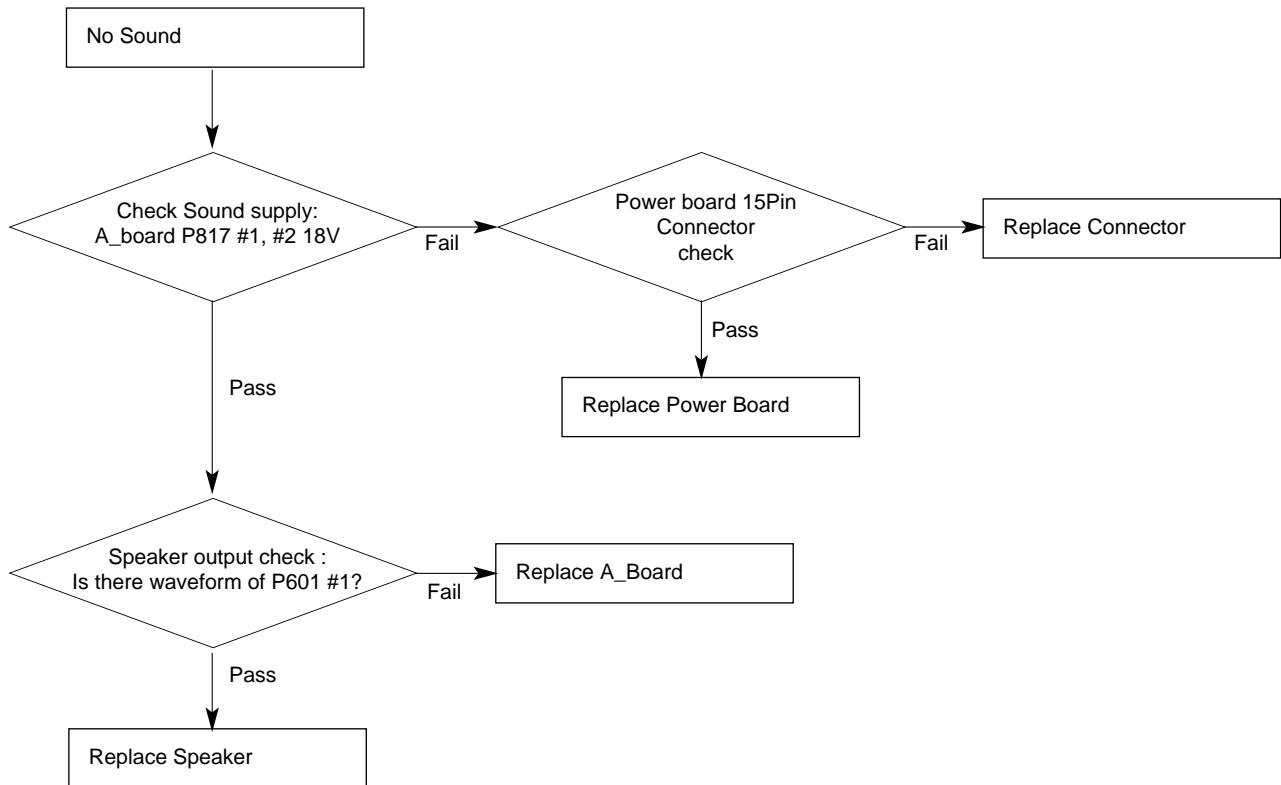
NO	KEY	FUNTION	REAMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut keys
5	S-CHECK	To check TV screen sound easily	Shortcut keys
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys
7	CAPTION	Switch to closed caption broadcasting	
8	TXT	To toggle on/off the teletext mode	
9	TV/AV	To select an external input for the TV screen	
10	TURBO SOUND	To start turbo sound	
11	TURBO PICTURE	To start turbo picture	
12	IN-START	To enter adjustment mode when manufacturing the TV sets. To adjust the screen voltage (automatic): In-start → mute → Adjust → AV(Enter into W/B adjustment mode) W/B adjustment (automatic): After adjusting the screen → W/B adjustment → Exit two times (Adjustment completed)	Use the AV key to enter the screen W/B adjustment mode.
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.	
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)	
15	EXIT	To release the adjustment mode	
16	APC(PSM)	To easily adjust the screen according to surrounding brightness	
17	ASC(SSM)	To easily adjust sound according to the program type	
18	MULTIMIDIA	To check component input	Shortcut keys
19	FRONT-AV	To check the front AV	Shortcut keys
20	CH±	To move channel up/down or to select a function displayed on the screen.	
21	VOL±	To adjust the volume or accurately control a specific function.	
22	ENTER	To set a specific function or complete setting.	
23	PIP CH-(OP1)	To move the channel down in the PIP screen. To use as a red key in the teletext mode	
24	PIP CH+(OP2)	To move the channel in the PIP screen To use as a green key in the teletext mode	
25	PIP SWAP(OP3)	To switch between the main and sub screens To use as a yellow key in the teletext mode	
26	PIP INPUT(OP4)	To select the input status in the PIP screen To use as a blue key in the teletext mode	
27	EYE	To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.	
28	MENU	To select the functions such as video, voice, function or channel.	
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.	
30	STILL	To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.)	
31	TIME	Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode	
32	SIZE	Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode	
33	MULTI PIP	Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)	
34	POSITION	To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.)	
35	MODE	Used as Mode in the teletext mode	
36	PIP	To select the simultaneous screen	
37	TILT	To adjust screen tilt	Shortcut keys
38	0~9	To manually select the channel.	



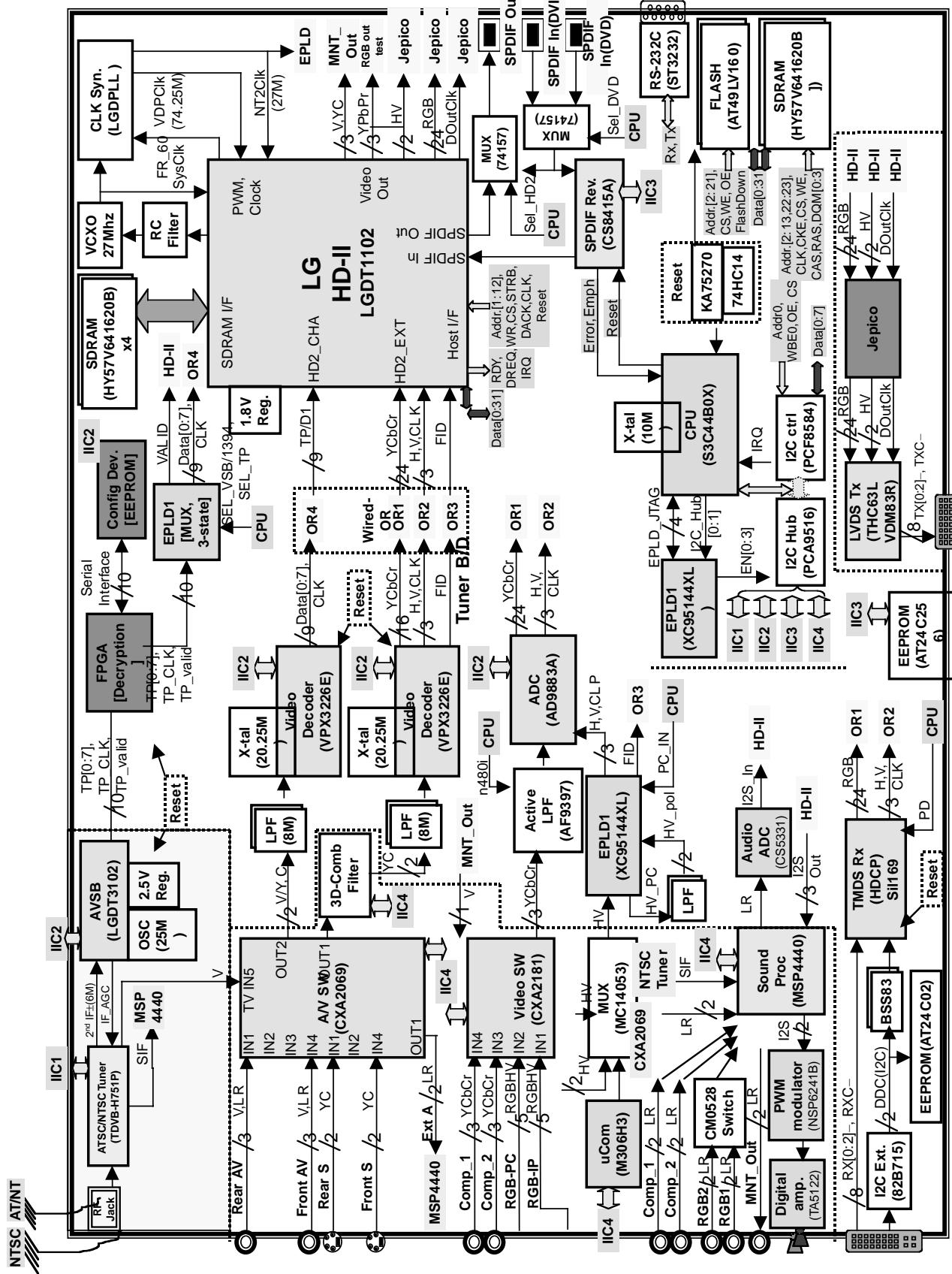
TROUBLESHOOTING







BLOCK DIAGRAM(MAIN)



BLOCK DIAGRAM DESCRIPTION(MAIN)

ATSC/NTSC tuner (TDVB-001P) can receive both terrestrial analog and terrestrial digital signals.

But a NTSC tuner (6700NFNS06C) can receive terrestrial analog only. Therefore if you run two displays at the same time, it is not possible to see two digital channels.

A/V SW (CXA2069) is the IC that takes external input terminal signals and broadcast signals from the tuners and handles them selectively. Audio signals are sent to MSP4450. Video signals are sent to HD-II via two paths - VPX3226E on the upper side is used to handle sub displays, while VPX3225E on the lower side controls the main display.

To the lower side, signals are sent using an expensive 3D-comb filter with Y/C divided.

The video decoder (VPX3226E) is a chip that decodes input signals.

HD-II is a chip that controls nearly all video-related functions, including brightness, sharpness, video formatting and scaling. If digital broadcasting is available, it comes through TP, which can be controlled from HD-II.

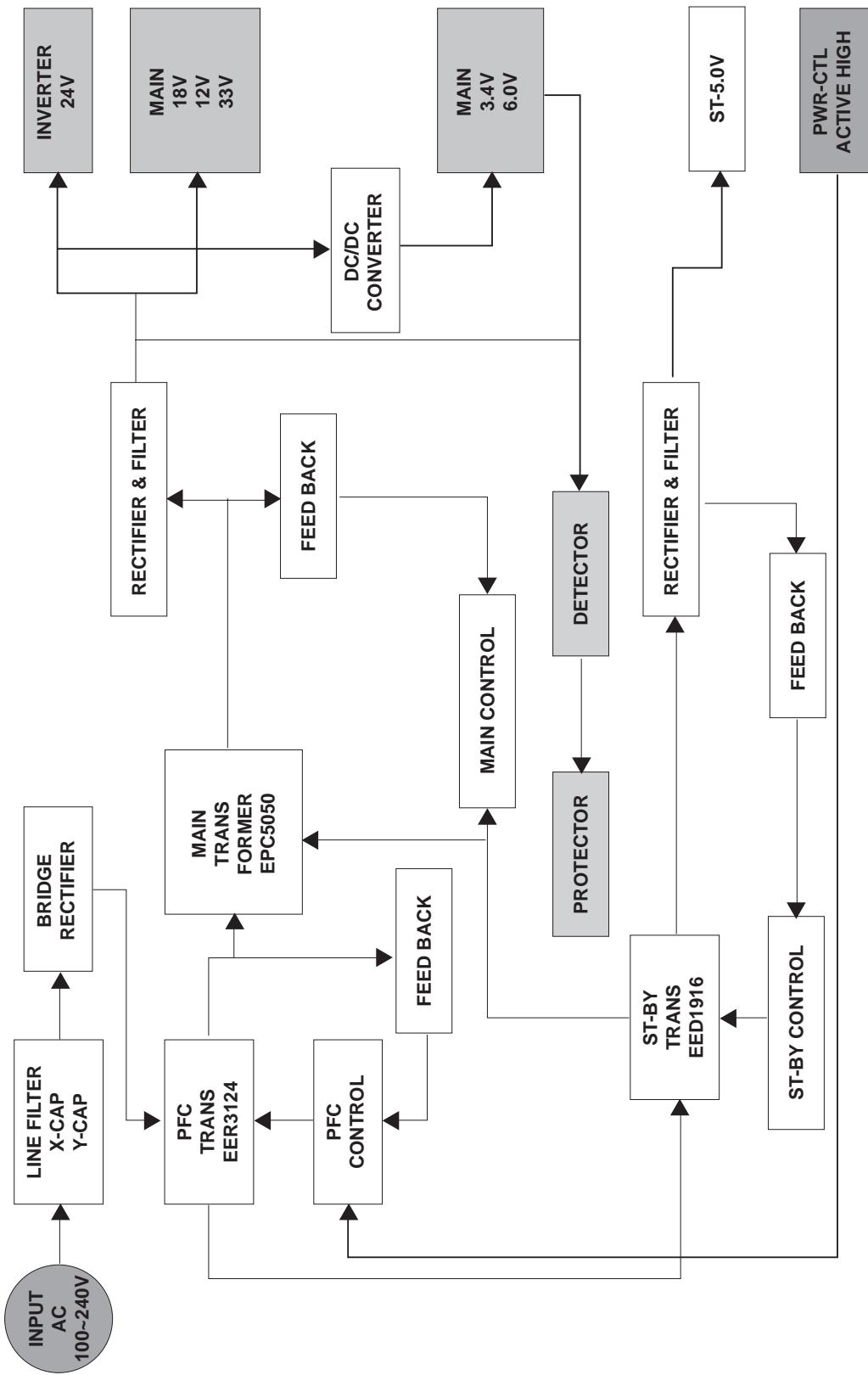
Video SW (CXA2181) is an IC that outputs video signals selectively. The selected one is outputted through ADC (AD9883A) as a digital signal. uCom (M306H3) interfaces with the main CPU and primarily plays the role of controlling power supply, remote controller and timers. Thus, while the set is turned off, it sends time information to uCom for management.

TMDS Tx (SiL169) is the display stage that sends video data to the display medium according to the TMDS protocol, and the TMDS receiver accepts it and outputs display.

CPU (S3C440BX) is the central processing IC, which controls most of the ICs.

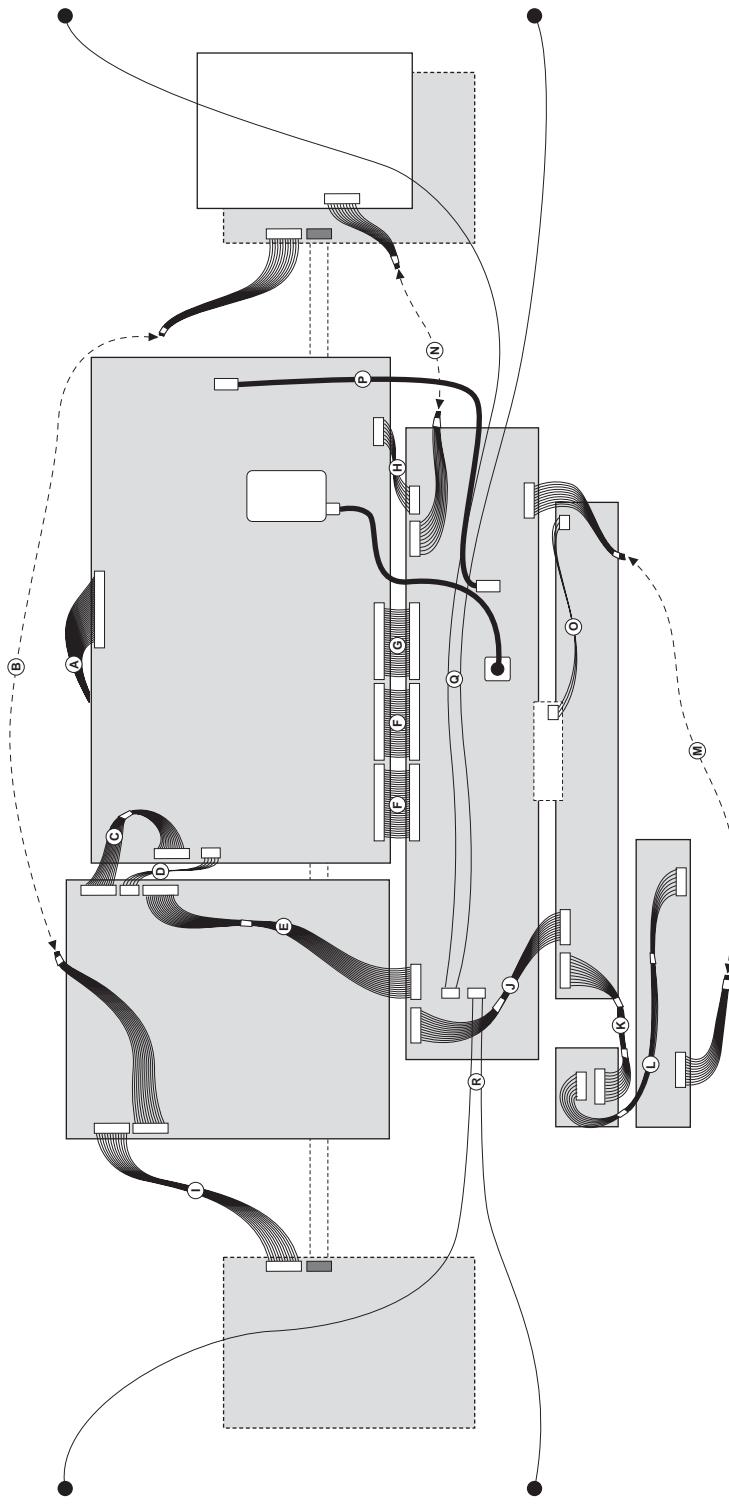
Decryption FPGA(Cyclone EP1C12F256C8) can decrypt the encrypted TP(Digital Tuner stream) to normal TP(non encrypted stream).

BLOCK DIAGRAM(POWER)

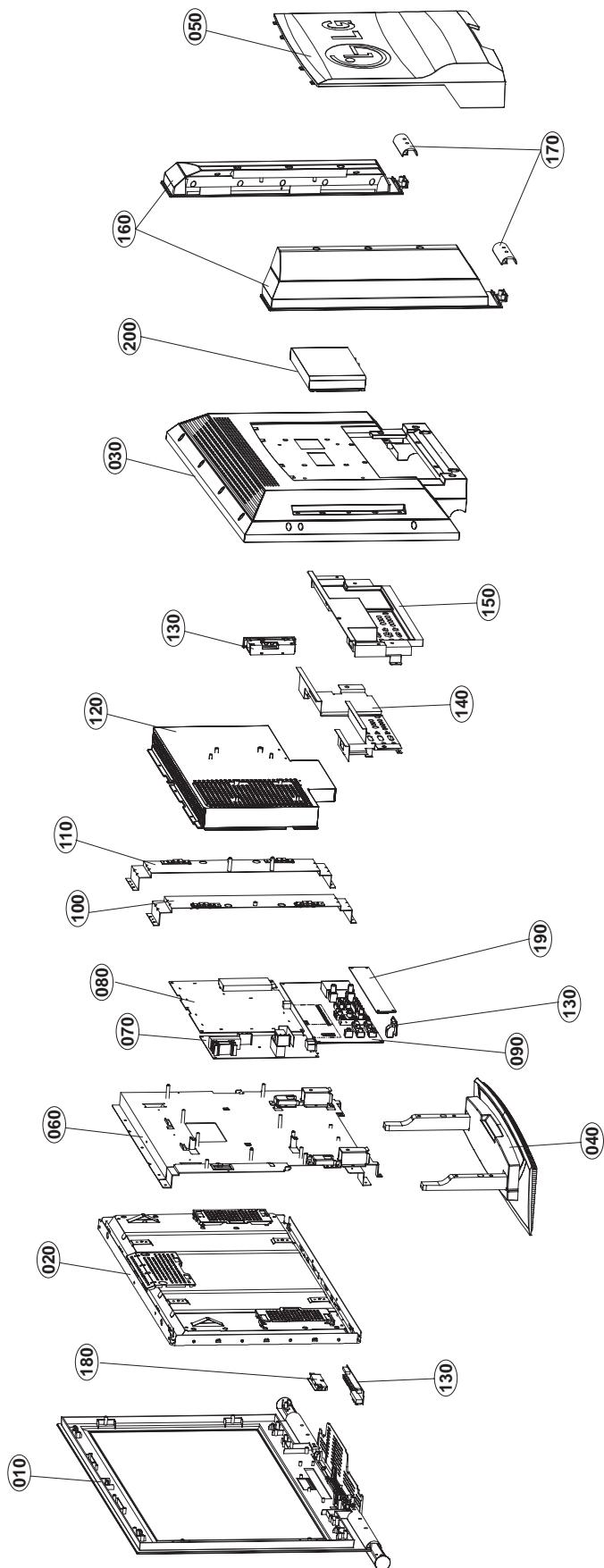


WIRING DIAGRAM

Wiring Part List	
Part No.	
A	6631T11020Z
B	6631T20037D
C	6631T25023R
D	6631T25019W
E	6631T25019X
F	6631V10004A
G	6631T11017J
H	6631T25019U
I	6631T20037E
J	6631T20028K
K	6631T20028H
L	6631T20013E
M	6631T20034X
N	6631T25025A
O	6631T12006Q
P	6631T11020V
Q	6631T25023S
R	6631T25023T



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
010	3091TKE023C	CABINET ASSEMBLY, 32LP10 BRAND 3090TKE019 BLACK, FOR COM
020	6304FLP181A	LCD(LIQUID CRYSTAL DISPLAY), LC320W01-A6K3 LG PHILIPS TFT COLOR AI ODC
030	3809TKE022A	BACK COVER ASSEMBLY, 32LP10 3808TKE020 DARK GRAY
040	3043TKK214C	TILT SWIVEL ASSEMBLY, 32LP10 . FOR COMMERCIAL
050	3550TKK880A	COVER, 32LP1DC-UA REAR DECO.(FOR COMMERCIAL)
060	4951TKS193C	METAL ASSEMBLY, FRAME 32LP10-DU-C
070	6871TPT303A	PWB(PCB) ASSEMBLY,POWER, DU/DN/DI-32LP10 POWER TOTAL BRAND DU(DCR) COMM
080	3313TD3025A	MAIN TOTAL ASSEMBLY, 32LP1DC BRAND AL-04CA
090	6871TST768A	PWB(PCB) ASSEMBLY,SUB, 32LP1DC SUB TOTAL BRAND COMMERCIAL ANALOG BOARD
100	4951TKK228B	METAL ASSEMBLY, FRAME SIDE R(32LP10)
110	4951TKK228A	METAL ASSEMBLY, FRAME SIDE L(32LP10)
120	4951TKK238A	METAL ASSEMBLY, FRAME REAR 32LP10
130	6871TST931A	PWB(PCB) ASSEMBLY,SUB, 32LP1DC SUB TOTAL BRAND .
140	4950TKA066C	METAL, SHIELD REAR A/V (DU-32LP10C)
150	3551TKK561C	COVER ASSEMBLY, 32LP10-DU-C REAR AV BRACKET
160	3551TKS058A	COVER ASSEMBLY, 32LP10 SPEAKER . GRAY(32LP1D-NA)
170	4950TKA058A	METAL, PLATE AL DECO REAR SPEAKER L (32LP10)
180	6871TSTA69A	PWB(PCB) ASSEMBLY,SUB, TOTAL BRAND LOGO ASSY .
190	6871TST932A	PWB(PCB) ASSEMBLY,SUB, 32LP1DC LED SUB TOTAL BRAND .
200	3141TZZ172A	CHASSIS ASSEMBLY, CONTROL BOX, 32LP1DC-U, LST-4100A, COMMERCIAL, KIMIN

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN, CH : Ceramic
CQ : Polyester
CE : Electrolytic
CF : Fixed Film

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RH : CHIP, Metal Glazed(Chip)
RR : Drawing

DATE: 2005. 02. 20.				
MAIN BOARD				
CAPACITOR				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		CD1	0CH3105F946	1UF 16V Z F 2012 R/TP
		CD3	0CH3105F946	1UF 16V Z F 2012 R/TP
		C129	0CH3105F946	1UF 16V Z F 2012 R/TP
		C130	0CH3105F946	1UF 16V Z F 2012 R/TP
		C131	0CH3105F946	1UF 16V Z F 2012 R/TP
		C140	0CH3105F946	1UF 16V Z F 2012 R/TP
		C506	0CH3472K516	4700PF 50V K B 2012 R/TP
		C689	0CH3105F946	1UF 16V Z F 2012 R/TP
		CD36	0CH3105F946	1UF 16V Z F 2012 R/TP
		C108	0CH6220K416	22PF 50V J NPO 2012 R/TP
		C109	0CH6220K416	22PF 50V J NPO 2012 R/TP
		C1205	0CH6150K416	15PF 50V J NPO 2012 R/TP
		C1206	0CH6150K416	15PF 50V J NPO 2012 R/TP
		C1350	0CH6080K116	8PF 50V D NPO 2012 R/TP
		C306	0CH6030K116	3PF 50V D NPO 2012 R/TP
		C307	0CH6030K116	3PF 50V D NPO 2012 R/TP
		C359	0CH6030K116	3PF 50V D NPO 2012 R/TP
		C360	0CH6030K116	3PF 50V D NPO 2012 R/TP
		C450	0CH6080K116	8PF 50V D NPO 2012 R/TP
		C820	0CH6220K416	22PF 50V J NPO 2012 R/TP
		C821	0CH6220K416	22PF 50V J NPO 2012 R/TP
		C856	0CH6221K416	220PF 50V J NPO 2012 R/TP
		C865	0CH6220K416	22PF 50V J NPO 2012 R/TP
		C866	0CH6220K416	22PF 50V J NPO 2012 R/TP
		C1310	0CH6331K416	330PF 50V J NPO 2012 R/TP
		C1330	0CH6050K116	5PF 50V D NPO 2012 R/TP
		C1331	0CH6220K416	22PF 50V J NPO 2012 R/TP
		C1336	0CH6220K416	22PF 50V J NPO 2012 R/TP
		C1351	0CH6560K416	56PF 50V J NPO 2012 R/TP
		C142	0CH6221K416	220PF 50V J NPO 2012 R/TP
		C143	0CH6331K416	330PF 50V J NPO 2012 R/TP
		C636	0CH6050K116	5PF 50V D NPO 2012 R/TP
		C684	0CH6220K416	22PF 50V J NPO 2012 R/TP
		C686	0CH6220K416	22PF 50V J NPO 2012 R/TP
		C817	0CH6561K416	560PF 50V J NPO 2012 R/TP
		C100	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C101	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C102	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C103	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C104	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C105	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C106	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C107	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C111	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C112	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C116	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C118	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C119	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C120	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C122	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C126	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C127	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C128	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1302	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1305	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2005. 02. 20.				
MAIN BOARD				
CAPACITOR				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1306	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1313	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1326	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C133	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1400	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C201	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C202	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C203	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C204	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C205	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C207	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C208	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C209	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C210	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C211	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C212	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C214	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C215	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C220	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C221	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C222	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C223	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C224	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C225	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C226	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C227	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C228	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C229	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C230	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C231	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C232	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C233	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C234	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C235	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C236	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C237	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C239	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C240	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C242	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C243	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C247	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C248	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C249	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C250	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C251	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C252	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C253	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C254	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C255	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C256	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C258	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C259	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C260	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C261	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2005. 02. 20.

DATE: 2005. 02. 20.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C404	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C423	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C425	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C431	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C432	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C500	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C505	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C507	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C508	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C509	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C551	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C602	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C615	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C627	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C629	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C650	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C663	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C680	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C681	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C800	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C805	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C808	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C811	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C828	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C831	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C836	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C838	0CH2334F566	0.33UF 16V 10% X7R 2012 R/TP
		C839	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C841	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C843	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C845	0CH2334F566	0.33UF 16V 10% X7R 2012 R/TP
		C846	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C848	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C850	0CH2334F566	0.33UF 16V 10% X7R 2012 R/TP
		C851	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C883	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C920	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C921	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C923	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C925	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C926	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD12	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD15	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD18	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD20	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD27	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD4	0CK225DH94A	"2.2UF 2012 25V 80%,-20% F(Y5"
		CD7	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C110	0CH5821K416	820PF 50V 5% NP0 2012 R/TP
		C809	0CH5100K416	10PF 50V 5% NP0 2012 R/TP
		C810	0CH5100K416	10PF 50V 5% NP0 2012 R/TP
		C886	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C888	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C890	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C1309	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C825	0CE227DK618	220UF STD 50V M FL TP5
		C829	0CE227DK618	220UF STD 50V M FL TP5
		C1201	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C124	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C125	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C1300	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C1301	0CH8226F691	22UF 16V 20% 105STD (CYL) R/

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		C1303	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C1304	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C1307	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C132	0CH8105K691	1UF 50V 20% 105STD (CYL) R/T
		C1320	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1324	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1327	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C1328	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C1337	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C1352	0CE476WK6DC	47UF MVK 50V 20% R/TP(SMD) S
		C1353	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C1355	0CE476WK6DC	47UF MVK 50V 20% R/TP(SMD) S
		C1356	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C1401	0CE476WK6DC	47UF MVK 50V 20% R/TP(SMD) S
		C1406	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C1407	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1409	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C1410	0CE476WK6DC	47UF MVK 50V 20% R/TP(SMD) S
		C1414	0CH8477F691	470UF MVK 16V 20% SMD R/TP(S
		C1415	0CH8477F691	470UF MVK 16V 20% SMD R/TP(S
		C206	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C302	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C312	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C346	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C364	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C368	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C371	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C384	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C386	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C393	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C394	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C397	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C398	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C406	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C407	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C416	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C420	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C422	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C424	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C430	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C442	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C504	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C550	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C555	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C601	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C622	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C624	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C626	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C628	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C637	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C639	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C643	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C677	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C801	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C802	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C804	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C806	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SM
		C807	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C812	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C813	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C814	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C815	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S

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		C827	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SM
		C830	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SM
		C833	0CH8477F691	470UF MVK 16V 20% SMD R/TP(S
		C834	0CH8477F691	470UF MVK 16V 20% SMD R/TP(S
		C837	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C840	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C842	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C844	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C847	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C849	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C852	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C869	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C875	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C878	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C881	0CH8226F691	22UF 16V 20% 105STD (CYL) R/
		C884	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C918	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C919	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C922	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		CD2	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		CD43	0CE107WH6DC	100UF MVK 25V 20% R/TP(SMD)
		CD44	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		CD47	0CE107WH6DC	100UF MVK 25V 20% R/TP(SMD)
DIODEs				
		D601	0DRSE00018A	SRV05-4.TC SEMTECH R/TP SOT2
		D602	0DRSE00018A	SRV05-4.TC SEMTECH R/TP SOT2
		D603	0DRSE00018A	SRV05-4.TC SEMTECH R/TP SOT2
		D604	0DRSE00018A	SRV05-4.TC SEMTECH R/TP SOT2
		D811	0DS181009AA	KDS181 TP KEC SOT-23 80V 3
		D100	0DD184009AA	KDS184 TP KEC - 85V - - 30
		D410	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D600	0DD184009AA	KDS184 TP KEC - 85V - - 30
		D611	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D612	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D613	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D614	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D615	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D616	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D617	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D618	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D800	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D801	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D802	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		ZD1301	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1302	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1303	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1304	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1305	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
IC				
		IC500	0ICB841500D	CS8415AR-CSR 28PIN SOIC R/TP
		IC200	0ICTMLG009A	LGDT1102 HD2 LG IC SBGA-432
		IC315	0ICTMLG013A	LGDT1901A LG IC 24P SSOP TRA
		IC607	0ICTMLG014A	LGDT3302 LG IC 100P TQFP TRA
		IC101	0IZZTSZ667A	ATMEL 25P 32LP1DC FLASH MEMO
		IC102	0IZZTSZ668A	ATMEL 25P 32LP1DC FLASH MEM
		IC820	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VOL
		IC105	0IKE702900G	KIA7029AF SOT-89 TP 2.9V VOL
		IC300	0ILNRMN005A	VPX3226E MICRONAS 44 QFP TRA
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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		IC308	0ILNRMN005A	VPX3226E MICRONAS 44 QFP TRA
		IC103	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELEC
		IC104	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELEC
		IC107	0IAL242561B	AT24C256W-10SI-2.7V 8P SOIC
		IC210	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELEC
		IC211	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELEC
		IC212	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELEC
		IC213	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELEC
		IC601	0IMMRAL014B	AT24C02N-10SI-2.7 ATTEL 8P S
		IC803	0IMMR00037A	"M306H3FCFP RENESAS 116P,LQFP"
		IC830	0IMCRAL006A	AT24C16AN-10SI-2.7 ATTEL 8P
		ICD2	0IMMRAT006A	EPCS4S18N(PB FREE) ALTERA 8P
		IC100	0IMCRSS016A	S3C44BOX01-EDRO SAMSUNG ELEC
		IC108	0IMCRPH026A	PCA9516PW PHILIPS 16P TSSOP
		IC109	0IMCRPH026A	PCA9516PW PHILIPS 16P TSSOP
		IC110	0IMCRSG010A	ST3232CDR SGS-THOMSON SOP16
		IC314	0IMCRXL004A	XC95288XL-10TQG144C XILINX 1
		IC316	0IMCRCY002A	CY2309SC-1HT CYPRESS SOIC 16
		IC603	0IMCRS5003A	SIL169CT100 SILICON IMAGE 10
		IC900	0IMCRJP001A	J-L003 JEPICO 176P QFP TRAY
		IC322	0IMI623200B	"M62320FP,I/O EXPANDER 16P SO"
		IC313	0IPRP00548A	"CY25560SXCT,LF CYPRESS 8P,SO"
		IC301	0IPRPAD008B	"AD9883AKST(Z)-110,LF ANALOG"
		IC450	0ITH638300B	THC63LVDM83R THINE ELECTRONI
		ICF1	0IPRPAT002B	EP1C12F256C8 ALTERA 256P/BGA
		IC602	0IPH827150A	P82B715T 8SOP R/TP IIC EXTE
		IC400	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SOT
		IC401	0IPRPM001A	MIC39100 MICREL 3P SOT223 R/
		IC606	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SOT
		IC800	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R"
		IC801	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R"
		IC802	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R"
		IC910	0IPRPM001A	MIC39100 MICREL 3P SOT223 R/
		ICD3	0IMCRFA020A	RC1587DT_36 FAIRCHILD 3P TO2
		IC402	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULAT
		IC805	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULAT
		IC106	0IPH741400E	74HC14D 14SOP TP SHITTER TRI
		IC503	0ITO741570C	"TC74LCX157FT 16P,TSSOP TP QU"
		IC504	0IMCRFA014A	74F04SCX FAIRCHILD 14P SOIC
COIL & CORE & FILTER				
		L809	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N
		L810	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N
		B315	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		B800	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD11	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD2	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD8	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		R408	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		B1	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		B2	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		B3	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		B4	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		B5	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		B6	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		B7	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L802	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L803	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L804	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L816	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L819	6210TCE001G	HH-1M3216-501 CERATEC 3216MM

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		L820	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD1	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD3	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD4	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD5	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD6	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		LD7	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		R490	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		F400	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F401	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F402	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F403	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F404	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F405	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F407	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F408	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F410	6200VJT006A	STC22D NIIGATA 50VOLT 4A 22
		F411	6200VJT006A	STC22D NIIGATA 50VOLT 4A 22
		F800	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F801	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F810	6200VJT006A	STC22D NIIGATA 50VOLT 4A 22
		IC302	6200J00011A	H354LAI-K5202 TOKO R/TP BAND
		IC303	6200J00011A	H354LAI-K5202 TOKO R/TP BAND
INDUCTOR				
		B200	OLCML00002B	MLB-321611-0050P-N1 6A MAG L
		B310	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B311	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B400	OLCML00002B	MLB-321611-0050P-N1 6A MAG L
		B402	OLCML00002B	MLB-321611-0050P-N1 6A MAG L
		B403	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B550	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B551	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B601	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B612	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B620	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B900	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		L801	OLC6832101A	6.8UH 10% 3216 R/TC FI-C3216
		L808	OLC6832101A	6.8UH 10% 3216 R/TC FI-C3216
		B303	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B304	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B305	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B306	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B307	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B312	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B313	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B314	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B411	OLCML00002B	MLB-321611-0050P-N1 6A MAG L
		B412	OLCML00002B	MLB-321611-0050P-N1 6A MAG L
		B413	OLCML00002B	MLB-321611-0050P-N1 6A MAG L
		B414	OLCML00002B	MLB-321611-0050P-N1 6A MAG L
		B510	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B600	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B602	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B603	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B611	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B801	OLCML00002B	MLB-321611-0050P-N1 6A MAG L
		B802	OLCML00002B	MLB-321611-0050P-N1 6A MAG L
		B803	OLCML00002B	MLB-321611-0050P-N1 6A MAG L
		B804	OLCML00002B	MLB-321611-0050P-N1 6A MAG L
		B805	OLCML00002B	MLB-321611-0050P-N1 6A MAG L
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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		B806	OLCML00002B	MLB-321611-0050P-N1 6A MAG L
		B901	OLCML00002A	MLB-321611-0120A-N1 MAG LAYE
		B902	OLCML00002B	MLB-321611-0050P-N1 6A MAG L
		L308	OLC6832101A	6.8UH 10% 3216 R/TC FI-C3216
		L309	OLC6832101A	6.8UH 10% 3216 R/TC FI-C3216
		L800	OLC6832101A	6.8UH 10% 3216 R/TC FI-C3216
TRANSISTOR				
		IC321	OTF492509AA	SI4925DY TP TEMIC 30V 6.1A
		IC460	OTF492509AA	SI4925DY TP TEMIC 30V 6.1A
		Q100	OTR102008AA	KRA102S R/TP KEC SOT23 CHIP
		Q101	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q102	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q411	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q552	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q553	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q554	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q800	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q802	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q804	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q811	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q308	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q309	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q310	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q311	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q410	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q600	OTR830009BA	BSS83 TP PHILIPS NON N-CHANN
		Q601	OTR830009BA	BSS83 TP PHILIPS NON N-CHANN
		Q602	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q803	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q810	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
RESISTORs				
		R109	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1117	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1118	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1119	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R115	ORH1003D622	100K 1/10W 5 D.R/TP
		R129	ORH3901D622	3.9K 1/10W 5 D.R/TP
		R130	ORH3901D622	3.9K 1/10W 5 D.R/TP
		R167	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1802	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1805	ORH1000D622	100 1/10W 5 D.R/TP
		R1806	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R183	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R184	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R185	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R186	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R187	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R188	ORH3901D622	3.9K 1/10W 5 D.R/TP
		R218	ORH1000D622	100 1/10W 5 D.R/TP
		R227	ORH3900D622	390 1/10W 5 D.R/TP
		R233	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R244	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R257	ORH2200D622	220 1/10W 5 D.R/TP
		R258	ORH2200D622	220 1/10W 5 D.R/TP
		R261	ORH2200D622	220 1/10W 5 D.R/TP
		R301	ORH4702D622	47K 1/10W 5 D.R/TP
		R352	ORH4702D622	47K 1/10W 5 D.R/TP
		R384	ORH4701D622	4.7K 1/10W 5 D.R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R396	ORH0682D622	68 1/10W 5 D.R/TP
		R561	ORH1000D622	100 1/10W 5 D.R/TP
		R562	ORH1000D622	100 1/10W 5 D.R/TP
		R563	ORH1000D622	100 1/10W 5 D.R/TP
		R564	ORH0332D622	33 1/10W 5 D.R/TP
		R565	ORH0332D622	33 1/10W 5 D.R/TP
		R603	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R604	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R605	ORH0332D622	33 1/10W 5 D.R/TP
		R606	ORH0332D622	33 1/10W 5 D.R/TP
		R616	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R641	ORH3300D622	330 1/10W 5 D.R/TP
		R685	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R807	ORH1000D622	100 1/10W 5 D.R/TP
		R808	ORH1000D622	100 1/10W 5 D.R/TP
		R811	ORH2202D622	22K 1/10W 5 D.R/TP
		R813	ORH6201D622	6.2K 1/10W 5 D.R/TP
		R814	ORH3301D622	3.3K 1/10W 5 D.R/TP
		R816	ORH1202D622	12K 1/10W 5 D.R/TP
		R818	ORH4700D622	470 1/10W 5 D.R/TP
		R825	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R826	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R835	ORH1000D622	100 1/10W 5 D.R/TP
		R836	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R839	ORH1000D622	100 1/10W 5 D.R/TP
		R844	ORH5601D622	5.6K 1/10W 5 D.R/TP
		R845	ORH2001D622	2.0K 1/10W 5 D.R/TP
		R851	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R852	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R854	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R869	ORH4702D622	47K 1/10W 5 D.R/TP
		R872	ORH1000D622	100 1/10W 5 D.R/TP
		R875	ORH4702D622	47K 1/10W 5 D.R/TP
		RD9	ORH1000D622	100 1/10W 5 D.R/TP
		RM800	ORH5100D622	510 1/10W 5 D.R/TP
		RM801	ORH2001D622	2.0K 1/10W 5 D.R/TP
		RM802	ORH2001D622	2.0K 1/10W 5 D.R/TP
		R105	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1120	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R113	ORH1000D622	100 1/10W 5 D.R/TP
		R114	ORH1000D622	100 1/10W 5 D.R/TP
		R118	ORH1000D622	100 1/10W 5 D.R/TP
		R120	ORH1000D622	100 1/10W 5 D.R/TP
		R126	ORH1000D622	100 1/10W 5 D.R/TP
		R131	ORH3301D622	3.3K 1/10W 5 D.R/TP
		R1329	ORH5600D622	560 1/10W 5 D.R/TP
		R133	ORH3301D622	3.3K 1/10W 5 D.R/TP
		R1334	ORH0272D622	27 1/10W 5 D.R/TP
		R1335	ORH0682D622	68 1/10W 5 D.R/TP
		R135	ORH6201D622	6.2K 1/10W 5 D.R/TP
		R1356	ORH4300D622	CHIP 430-J 1/10 W
		R1357	ORH4300D622	CHIP 430-J 1/10 W
		R1358	ORH4300D622	CHIP 430-J 1/10 W
		R136	ORH6201D622	6.2K 1/10W 5 D.R/TP
		R1360	ORH4702D622	47K 1/10W 5 D.R/TP
		R1361	ORH1000D622	100 1/10W 5 D.R/TP
		R1364	ORH1000D622	100 1/10W 5 D.R/TP
		R1365	ORH1000D622	100 1/10W 5 D.R/TP
		R1366	ORH1000D622	100 1/10W 5 D.R/TP
		R1367	ORH1000D622	100 1/10W 5 D.R/TP
		R1368	ORH5600D622	560 1/10W 5 D.R/TP
		R1369	ORH1202D622	12K 1/10W 5 D.R/TP

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1370	ORH1202D622	12K 1/10W 5 D.R/TP
		R1371	ORH3300D622	330 1/10W 5 D.R/TP
		R1372	ORH5101D622	5.1K 1/10W 5 D.R/TP
		R1373	ORH2001D622	2.0K 1/10W 5 D.R/TP
		R1374	ORH4702D622	47K 1/10W 5 D.R/TP
		R1375	ORH4702D622	47K 1/10W 5 D.R/TP
		R1376	ORH1202D622	12K 1/10W 5 D.R/TP
		R1377	ORH1202D622	12K 1/10W 5 D.R/TP
		R1378	ORH3300D622	330 1/10W 5 D.R/TP
		R1379	ORH3300D622	330 1/10W 5 D.R/TP
		R1380	ORH1202D622	12K 1/10W 5 D.R/TP
		R1381	ORH1202D622	12K 1/10W 5 D.R/TP
		R1383	ORH1000D622	100 1/10W 5 D.R/TP
		R139	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R140	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R144	ORH3301D622	3.3K 1/10W 5 D.R/TP
		R148	ORH3300D622	330 1/10W 5 D.R/TP
		R149	ORH1000D622	100 1/10W 5 D.R/TP
		R150	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R176	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R200	ORH3900D622	390 1/10W 5 D.R/TP
		R221	ORH0752D622	75 1/10W 5 D.R/TP
		R222	ORH0752D622	75 1/10W 5 D.R/TP
		R223	ORH0752D622	75 1/10W 5 D.R/TP
		R224	ORH0512D622	51 1/10W 5 D.R/TP
		R225	ORH0512D622	51 1/10W 5 D.R/TP
		R226	ORH0512D622	51 1/10W 5 D.R/TP
		R2300	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R2301	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R2302	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R2303	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R2306	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R2308	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R2312	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R234	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R248	ORH0332D622	33 1/10W 5 D.R/TP
		R254	ORH2200D622	220 1/10W 5 D.R/TP
		R302	ORH4702D622	47K 1/10W 5 D.R/TP
		R303	ORH4702D622	47K 1/10W 5 D.R/TP
		R310	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R315	ORH1000D622	100 1/10W 5 D.R/TP
		R316	ORH2701D622	2.7K 1/10W 5 D.R/TP
		R329	ORH1602D622	16K 1/10W 5 TA
		R331	ORH3300D622	330 1/10W 5 D.R/TP
		R332	ORH4702D622	47K 1/10W 5 D.R/TP
		R333	ORH4702D622	47K 1/10W 5 D.R/TP
		R334	ORH4702D622	47K 1/10W 5 D.R/TP
		R335	ORH4702D622	47K 1/10W 5 D.R/TP
		R336	ORH4702D622	47K 1/10W 5 D.R/TP
		R337	ORH4702D622	47K 1/10W 5 D.R/TP
		R338	ORH4702D622	47K 1/10W 5 D.R/TP
		R339	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R340	ORH0102D622	10 1/10W 5 D.R/TP
		R345	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R358	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R367	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R371	ORH6802D622	68K 1/10W 5 D.R/TP
		R397	ORH0272D622	27 1/10W 5 D.R/TP
		R492	ORH3300D622	330 1/10W 5 D.R/TP
		R502	ORH1201D622	1.2K 1/10W 5 D.R/TP
		R503	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R505	ORH4702D622	47K 1/10W 5 D.R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R600	ORH1000D622	100 1/10W 5 D.R/TP
		R609	ORH0332D622	33 1/10W 5 D.R/TP
		R610	ORH0332D622	33 1/10W 5 D.R/TP
		R612	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R613	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R618	ORH1000D622	100 1/10W 5 D.R/TP
		R619	ORH1000D622	100 1/10W 5 D.R/TP
		R625	ORH1000D622	100 1/10W 5 D.R/TP
		R626	ORH1000D622	100 1/10W 5 D.R/TP
		R628	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R630	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R632	ORH0102D622	10 1/10W 5 D.R/TP
		R635	ORH3300D622	330 1/10W 5 D.R/TP
		R640	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R642	ORH3300D622	330 1/10W 5 D.R/TP
		R663	ORH3001D622	3.0K 1/10W 5 D.R/TP
		R666	ORH0512D622	51 1/10W 5 D.R/TP
		R670	ORH1004D622	1.0M 1/10W 5 D.R/TP
		R801	ORH0102D622	10 1/10W 5 D.R/TP
		R805	ORH0822D622	82 1/10W 5 D.R/TP
		R812	ORH4700D622	470 1/10W 5 D.R/TP
		R815	ORH4700D622	470 1/10W 5 D.R/TP
		R827	ORH1000D622	100 1/10W 5 D.R/TP
		R828	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R829	ORH1000D622	100 1/10W 5 D.R/TP
		R830	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R832	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R838	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R840	ORH1000D622	100 1/10W 5 D.R/TP
		R841	ORH1000D622	100 1/10W 5 D.R/TP
		R842	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R843	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R846	ORH1000D622	100 1/10W 5 D.R/TP
		R850	ORH1000D622	100 1/10W 5 D.R/TP
		R855	ORH1000D622	100 1/10W 5 D.R/TP
		R856	ORH1000D622	100 1/10W 5 D.R/TP
		R857	ORH1000D622	100 1/10W 5 D.R/TP
		R858	ORH1000D622	100 1/10W 5 D.R/TP
		R859	ORH1000D622	100 1/10W 5 D.R/TP
		R860	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R861	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R865	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R867	ORH1000D622	100 1/10W 5 D.R/TP
		R870	ORH1000D622	100 1/10W 5 D.R/TP
		R871	ORH1000D622	100 1/10W 5 D.R/TP
		R873	ORH1000D622	100 1/10W 5 D.R/TP
		R877	ORH3300D622	330 1/10W 5 D.R/TP
		R880	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R881	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R882	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R903	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R904	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R905	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R921	ORH2001D622	2.0K 1/10W 5 D.R/TP
		R962	ORH0332D622	33 1/10W 5 D.R/TP
		RD25	ORH4702D622	47K 1/10W 5 D.R/TP
		RD26	ORH4702D622	47K 1/10W 5 D.R/TP
AR100		AR100	ORRZVTA001C	4.7K OHM 1 / 16 W 1608 5% R/
AR101		AR101	ORRZVTA001C	4.7K OHM 1 / 16 W 1608 5% R/
AR400		AR400	ORHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
AR401		AR401	ORHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
AR402		AR402	ORRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		AR403	ORHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		AR404	ORHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		AR405	ORHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		AR406	ORRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		AR407	ORRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		AR408	ORRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		AR600	ORHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		AR601	ORHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		AR602	ORHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		AR603	ORHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		AR604	ORHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		AR611	ORRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		AR612	ORRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		AR613	ORRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP
		R496	ORS0332J609	33 1W 5 TA52
		R107	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R127	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1308	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1326	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1362	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1363	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R137	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00%
		R138	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00%
		R1396	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R152	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R153	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R155	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R177	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R178	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1800	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R192	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R193	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R194	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R195	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R197	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R208	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R210	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R212	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R228	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R243	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R247	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R249	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R251	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R259	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R260	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R262	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R263	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R264	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R267	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R269	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R271	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R273	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R275	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R354	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R361	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R362	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R385	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R389	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R391	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R392	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R395	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R398	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R912	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R913	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R914	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R915	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R916	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R917	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R918	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R919	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R920	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		RD1	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RD16	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD17	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD18	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD19	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD2	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RD20	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD21	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD22	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD23	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD24	0RH222D622	22 OHM 1 / 10 W 2012 5.00% D
		RD29	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD3	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RD30	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD31	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD32	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD33	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD34	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD35	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD36	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD37	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD38	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD4	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RD401	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD42	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD44	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD5	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD6	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD7	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD8	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
OTHERs				
		X821	6202TTB004E	HC-49/U KONY RADIAL 10MHZ 30
		JR300	6612B00016C	MJ-657PP-8-SD-LED ARIN TECH
		LED600	0DL233309AC	SAM2333 TP KWANG GREEN/RED G
		IC312	6204B60001B	VCXO BUBANG 27MHZ +/- 100 PP
		X601	6204B47985K	BMS-873R BUBANG 25MHZ +/- 50
		X900	6204B47985H	SCO-103 SUNNY 74.25MHZ +/- 5
		XD1	6204B60001B	VCXO BUBANG 27MHZ +/- 100 PP
		X820	6212AC2329A	CH-206 SUNNY 32.768KHZ +/- 2
		X100	6212AB2015E	HC-49/SM BUBANG 10.0MHZ +/-
		X300	6202VDT002E	SX-1SMD SUNNY RADIAL 2025000
		X301	6202VDT002E	SX-1SMD SUNNY RADIAL 2025000
		SW100	6600VR1004A	SKHMPW 5P CHIP TACT J-ALPS N
		TU101	6700NFNS04F	TDVL-H751P LG INOTEK MULTI B
COMMERCIAL BOARD				
CAPACITOR				
		C662	0CH3223K516	22000PF 50V K B 2012 R/TP
		C839	0CH3105F946	1UF 16V Z F 2012 R/TP
		C658	0CH3105F946	1UF 16V Z F 2012 R/TP
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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C661	0CH3105F946	1UF 16V Z F 2012 R/TP
		C972	0CH3222K516	2200PF 50V K B 2012 R/TP
		C973	0CH3222K516	2200PF 50V K B 2012 R/TP
		C974	0CH3222K516	2200PF 50V K B 2012 R/TP
		C975	0CH3222K516	2200PF 50V K B 2012 R/TP
		C976	0CH3222K516	2200PF 50V K B 2012 R/TP
		C977	0CH3222K516	2200PF 50V K B 2012 R/TP
		C978	0CH3222K516	2200PF 50V K B 2012 R/TP
		C979	0CH3222K516	2200PF 50V K B 2012 R/TP
		C106	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C107	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C108	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C110	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C1817	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C1820	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C863	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C864	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C871	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C872	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C885	0CH6561K416	560PF 50V J NP0 2012 R/TP
		C945	0CH6471K416	470F 50V J NP0 2012 R/TP
		C989	0CH6560K416	56PF 50V J NP0 2012 R/TP
		C990	0CH6560K416	56PF 50V J NP0 2012 R/TP
		C130	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C131	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C132	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C851	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C852	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C855	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C856	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C882	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C883	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C905	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C936	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C944	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C947	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C111	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C120	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C122	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C123	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C124	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1801	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1803	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1804	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1805	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1807	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1811	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1815	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1818	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1863	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1864	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1866	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1867	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C601	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C603	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C605	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C606	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C607	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C609	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C610	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C646	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C647	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C832	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C837	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C843	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C844	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C845	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C846	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C847	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C848	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C853	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C854	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C860	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C870	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C899	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C900	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C901	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C939	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C942	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C943	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C958	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C959	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C960	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C961	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C962	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C963	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C964	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C965	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C971	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1812	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C616	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C886	0CH5821K416	820PF 50V 5% NP0 2012 R/TP
		C695	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C802	0CH5820K416	82PF 50V 5% NP0 2012 R/TP
		C991	0CH6020K116	2PF 50V 0.5 PF NP0 2012 R/TP
		C992	0CH6020K116	2PF 50V 0.5 PF NP0 2012 R/TP
		C1810	OCE105CK636	"1UF SHL,SD 50V 20% FM5 BP(D)"
		C688	OCE108EJK18	"1000UF KMG,RD 35V 20%,-20% F"
		C689	OCE108EJK18	"1000UF KMG,RD 35V 20%,-20% F"
		C902	OCE4772J618	470UF KMF 35V 20% TP 5 FL
		C112	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C113	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C1806	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C1809	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1813	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C1821	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1822	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1862	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C1865	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C1868	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C1871	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C602	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C604	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C611	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C613	OCE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C614	OCE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C651	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C653	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C665	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C667	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C692	OCE476VK6DC	47UF MV 50V 20% R/TP(SMD) SM
		C725	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C727	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C741	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C743	0CH8477F691	470UF MVK 16V 20% SMD R/TP(S)
		C763	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C766	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C782	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C785	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C801	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C803	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C804	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C805	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C807	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C808	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C809	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C810	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C812	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C813	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C814	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C815	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C817	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C830	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C836	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C842	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C849	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C850	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C857	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C858	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C866	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C867	OCE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C868	OCE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C873	0CH8477F691	470UF MVK 16V 20% SMD R/TP(S)
		C875	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C878	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C897	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C898	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C906	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C927	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C930	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C937	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C938	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C940	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C941	OCE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C946	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C953	OCE475VK6DC	4.7UF MV 50V 20% R/TP(SMD) S
		C954	OCE475VK6DC	4.7UF MV 50V 20% R/TP(SMD) S
		C966	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C967	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C968	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD) S
		C970	OCE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) S
		C981	OCE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) S
		C987	OCE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C677	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
		C681	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
DIODEs				
		D702	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D704	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D706	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		IC602	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D701	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		ZD101	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD102	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD104	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		ZD106	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD115	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD120	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD121	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD122	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD123	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD124	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD125	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD128	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD132	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD133	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD300	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD301	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD302	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD303	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD105	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD107	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD108	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD109	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD110	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD111	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD112	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD113	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD114	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD116	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD129	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD130	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD131	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD903	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD904	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD905	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD902	0DZ820009AK	UDZS 8.2B ROHM R/TP SOD323 0
IC				
		IC608	0ICB533100A	CS5331A-KSR 8SOIC TP ADC -
		IC606	0IKE702900G	KIA7029AF SOT-89 TP 2.9V VOL
		IC102	0IMMRCS013A	"CAT24C21 CATALYST 8P,SOIC R/"
		IC804	0IMMRNE002A	UPD64083GF3BA NEC 100 QFP ST
		IC604	0IMCRNL001A	NSP-6241B NEOFIDELITY 64P TQ
		IC605	0IMCRTI028C	TAS5122DCAR TEXAS INSTRUMENT
		IC801	0IMCRSO025A	CXA2181Q SONY 48P QFP TRAY V
		IC803	0ISO206900A	CXA2069Q QFP64 BK I2C BUS AV
		IC902	0IMCRTI007A	TPA0242PWP TEXAS INSTRUMENT
		IC904	0IMCRMN027B	MSP4440G-QA-C13-101WITH SRS
		IC601	0IMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK,"
		IC702	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R"
		IC704	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R"
		IC705	0IMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK,"
		IC706	0IPRPM001A	MIC39100 MICREL 3P SOT223 R/
		IC603	0ISTLTI049A	CD4052BPWR TEXAS INSTRUMENT
		IC901	0IMCRTI001A	SN74HCT157D TEXAS INSTRUMENT
COIL & CORE & FILTER				
		L607	6140VB0022A	CPS-0810 GET 22UH 21.5TURNs
		L608	6140VB0022A	CPS-0810 GET 22UH 21.5TURNs
		L609	6140VB0022A	CPS-0810 GET 22UH 21.5TURNs
		L610	6140VB0022A	CPS-0810 GET 22UH 21.5TURNs
		L602	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L603	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L604	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
INDUCTOR				
		L102	OLC4732101A	4.7UH 10% 3216 R/TC FI-B3216
		L103	OLC4732101A	4.7UH 10% 3216 R/TC FI-B3216
		L804	OLC2232101A	22UH 10% 3216 R/TC FI-D3216-

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		L806	OLC4732101A	4.7UH 10% 3216 R/TC FI-B3216
		L807	OLC2232101A	22UH 10% 3216 R/TC FI-D3216-
		L808	OLC1032101A	10UH 10% 3216 R/TC FI-C3216-
		L810	OLCML00005A	MLI-201209-5R6K MAG LAYERS R
		L906	OLC2232101A	22UH 10% 3216 R/TC FI-D3216-
		L907	OLC1020101A	1UH 10% 2012 R/TC FI-B2012-1
		L908	OLC1020101A	1UH 10% 2012 R/TC FI-B2012-1
		L912	OLC2232101A	22UH 10% 3216 R/TC FI-D3216-
		L911	OLC2232101A	22UH 10% 3216 R/TC FI-D3216-
		L913	OLC2232101A	22UH 10% 3216 R/TC FI-D3216-
TRANSISTOR				
		Q103	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q806	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q807	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q808	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q809	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q810	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q811	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q816	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q817	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q818	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q819	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q825	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q827	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q828	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q829	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q835	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q836	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q839	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q840	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q843	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q844	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q845	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q851	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q903	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q904	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q910	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q911	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q912	OTR102008AA	KRA102S R/TP KEC SOT23 CHIP
		Q913	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q914	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q915	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		QP102	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q803	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q804	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q805	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q813	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q820	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q821	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q822	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q823	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q824	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q826	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q830	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q832	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q833	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q834	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q837	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q838	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q841	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -

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		Q842	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q846	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q847	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q848	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q849	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q850	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		QP100	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		QP101	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
RESISTORs				
		R101	ORH1000D622	100 1/10W 5 D.R/TP
		R102	ORH1202D622	12K 1/10W 5 D.R/TP
		R105	ORH7500D622	750 OHM 1 / 10 W 5% D R/TP
		R106	ORH0822D622	82 1/10W 5 D.R/TP
		R108	ORH1000D622	100 1/10W 5 D.R/TP
		R109	ORH0822D622	82 1/10W 5 D.R/TP
		R111	ORH0822D622	82 1/10W 5 D.R/TP
		R120	ORH4703D622	470K 1/10W 5 D.R/TP
		R125	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R128	ORH1000D622	100 1/10W 5 D.R/TP
		R145	ORH4703D622	470K 1/10W 5 D.R/TP
		R147	ORH4703D622	470K 1/10W 5 D.R/TP
		R1601	ORH1500D622	150 1/10W 5 D.R/TP
		R1602	ORH1500D622	150 1/10W 5 D.R/TP
		R162	ORH0752D622	75 1/10W 5 D.R/TP
		R168	ORH0752D622	75 1/10W 5 D.R/TP
		R170	ORH4703D622	470K 1/10W 5 D.R/TP
		R172	ORH4703D622	470K 1/10W 5 D.R/TP
		R175	ORH0752D622	75 1/10W 5 D.R/TP
		R177	ORH0752D622	75 1/10W 5 D.R/TP
		R1801	ORH1000D622	100 1/10W 5 D.R/TP
		R1802	ORH1000D622	100 1/10W 5 D.R/TP
		R1805	ORH3300D622	330 1/10W 5 D.R/TP
		R1806	ORH3300D622	330 1/10W 5 D.R/TP
		R1810	ORH5100D622	510 1/10W 5 D.R/TP
		R1817	ORH3600D622	CHIP 360-J 1/10 W
		R1818	ORH2200D622	220 1/10W 5 D.R/TP
		R1819	ORH1000D622	100 1/10W 5 D.R/TP
		R1820	ORH1000D622	100 1/10W 5 D.R/TP
		R1821	ORH1000D622	100 1/10W 5 D.R/TP
		R1822	ORH4703D622	470K 1/10W 5 D.R/TP
		R1827	ORH4700D622	470 1/10W 5 D.R/TP
		R1828	ORH3302D622	33K 1/10W 5 D.R/TP
		R1831	ORH4700D622	470 1/10W 5 D.R/TP
		R1832	ORH3000D622	300 1/10W 5 D.R/TP
		R1833	ORH0682D622	68 1/10W 5 D.R/TP
		R1835	ORH1801D622	1.8K 1/10W 5 D.R/TP
		R1840	ORH2200D622	220 1/10W 5 D.R/TP
		R1841	ORH4702D622	47K 1/10W 5 D.R/TP
		R1843	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1848	ORH3302D622	33K 1/10W 5 D.R/TP
		R1851	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1855	ORH1801D622	1.8K 1/10W 5 D.R/TP
		R1863	ORH4700D622	470 1/10W 5 D.R/TP
		R1864	ORH0472D622	47 1/10W 5 D.R/TP
		R1865	ORH4700D622	470 1/10W 5 D.R/TP
		R1866	ORH4700D622	470 1/10W 5 D.R/TP
		R1868	ORH2700D622	270 1/10W 5 D.R/TP
		R1874	ORH4700D622	470 1/10W 5 D.R/TP
		R1875	ORH0472D622	47 1/10W 5 D.R/TP
		R1876	ORH4700D622	470 1/10W 5 D.R/TP

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		R1877	ORH4700D622	470 1/10W 5 D.R/TP
		R1879	ORH2700D622	270 1/10W 5 D.R/TP
		R1884	ORH0752D622	75 1/10W 5 D.R/TP
		R1887	ORH0752D622	75 1/10W 5 D.R/TP
		R1893	ORH0752D622	75 1/10W 5 D.R/TP
		R1894	ORH0752D622	75 1/10W 5 D.R/TP
		R1895	ORH0752D622	75 1/10W 5 D.R/TP
		R1903	ORH4703D622	470K 1/10W 5 D.R/TP
		R1905	ORH2001D622	2.0K 1/10W 5 D.R/TP
		R1907	ORH4703D622	470K 1/10W 5 D.R/TP
		R1909	ORH2001D622	2.0K 1/10W 5 D.R/TP
		R661	ORH0221D622	2.2 1/10W 5 D.R/TP
		R664	ORH0221D622	2.2 1/10W 5 D.R/TP
		R669	ORH0221D622	2.2 1/10W 5 D.R/TP
		R670	ORH0221D622	2.2 1/10W 5 D.R/TP
		R673	ORH0101D622	1.0 1/10W 5 TA
		R674	ORH0101D622	1.0 1/10W 5 TA
		R675	ORH0101D622	1.0 1/10W 5 TA
		R678	ORH0101D622	1.0 1/10W 5 TA
		R691	ORH5601D622	5.6K 1/10W 5 D.R/TP
		R800	ORH2200D622	220 1/10W 5 D.R/TP
		R801	ORH4700D622	470 1/10W 5 D.R/TP
		R804	ORH2200D622	220 1/10W 5 D.R/TP
		R824	ORH1502D622	15K 1/10W 5 D.R/TP
		R825	ORH6801D622	6.8K 1/10W 5 D.R/TP
		R827	ORH1502D622	15K 1/10W 5 D.R/TP
		R828	ORH6801D622	6.8K 1/10W 5 D.R/TP
		R830	ORH1502D622	15K 1/10W 5 D.R/TP
		R831	ORH6801D622	6.8K 1/10W 5 D.R/TP
		R833	ORH0752D622	75 1/10W 5 D.R/TP
		R834	ORH0752D622	75 1/10W 5 D.R/TP
		R836	ORH1502D622	15K 1/10W 5 D.R/TP
		R837	ORH6801D622	6.8K 1/10W 5 D.R/TP
		R839	ORH1502D622	15K 1/10W 5 D.R/TP
		R840	ORH6801D622	6.8K 1/10W 5 D.R/TP
		R842	ORH1502D622	15K 1/10W 5 D.R/TP
		R843	ORH6801D622	6.8K 1/10W 5 D.R/TP
		R852	ORH0752D622	75 1/10W 5 D.R/TP
		R853	ORH0752D622	75 1/10W 5 D.R/TP
		R862	ORH1502D622	15K 1/10W 5 D.R/TP
		R866	ORH0752D622	75 1/10W 5 D.R/TP
		R867	ORH0752D622	75 1/10W 5 D.R/TP
		R868	ORH0752D622	75 1/10W 5 D.R/TP
		R869	ORH1000D622	100 1/10W 5 D.R/TP
		R870	ORH1000D622	100 1/10W 5 D.R/TP
		R881	ORH2200D622	220 1/10W 5 D.R/TP
		R883	ORH0752D622	75 1/10W 5 D.R/TP
		R884	ORH2200D622	220 1/10W 5 D.R/TP
		R885	ORH4702D622	47K 1/10W 5 D.R/TP
		R887	ORH2200D622	220 1/10W 5 D.R/TP
		R891	ORH4703D622	470K 1/10W 5 D.R/TP
		R893	ORH4703D622	470K 1/10W 5 D.R/TP
		R894	ORH0752D622	75 1/10W 5 D.R/TP
		R895	ORH4702D622	47K 1/10W 5 D.R/TP
		R896	ORH2200D622	220 1/10W 5 D.R/TP
		R899	ORH0752D622	75 1/10W 5 D.R/TP
		R905	ORH2200D622	220 1/10W 5 D.R/TP
		R906	ORH2200D622	220 1/10W 5 D.R/TP
		R910	ORH1000D622	100 1/10W 5 D.R/TP
		R956	ORH1000D622	100 1/10W 5 D.R/TP
		R959	ORH2200D622	220 1/10W 5 D.R/TP
		R960	ORH2200D622	220 1/10W 5 D.R/TP

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		R976	ORH1000D622	100 1/10W 5 D.R/TP
		R977	ORH4700D622	470 1/10W 5 D.R/TP
		R978	ORH1202D622	12K 1/10W 5 D.R/TP
		R979	ORH3300D622	330 1/10W 5 D.R/TP
		R980	ORH3901D622	3.9K 1/10W 5 D.R/TP
		R997	ORH1000D622	100 1/10W 5 D.R/TP
		R998	ORH1000D622	100 1/10W 5 D.R/TP
		R999	ORH4701D622	4.7K 1/10W 5 D.R/TP
		RP107	ORH1502D622	15K 1/10W 5 D.R/TP
		RP110	ORH1502D622	15K 1/10W 5 D.R/TP
		R113	ORH2200D622	220 1/10W 5 D.R/TP
		R114	ORH7500D622	750 OHM 1 / 10 W 5% D R/TP
		R115	ORH2200D622	220 1/10W 5 D.R/TP
		R116	ORH1202D622	12K 1/10W 5 D.R/TP
		R119	ORH4703D622	470K 1/10W 5 D.R/TP
		R121	ORH4703D622	470K 1/10W 5 D.R/TP
		R122	ORH4703D622	470K 1/10W 5 D.R/TP
		R132	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R133	ORH1000D622	100 1/10W 5 D.R/TP
		R134	ORH1000D622	100 1/10W 5 D.R/TP
		R146	ORH4703D622	470K 1/10W 5 D.R/TP
		R148	ORH4703D622	470K 1/10W 5 D.R/TP
		R155	ORH0822D622	82 1/10W 5 D.R/TP
		R156	ORH0822D622	82 1/10W 5 D.R/TP
		R157	ORH0822D622	82 1/10W 5 D.R/TP
		R158	ORH0822D622	82 1/10W 5 D.R/TP
		R159	ORH0822D622	82 1/10W 5 D.R/TP
		R160	ORH0822D622	82 1/10W 5 D.R/TP
		R1603	ORH4702D622	47K 1/10W 5 D.R/TP
		R161	ORH4703D622	470K 1/10W 5 D.R/TP
		R163	ORH4703D622	470K 1/10W 5 D.R/TP
		R1809	ORH0752D622	75 1/10W 5 D.R/TP
		R1813	ORH2200D622	220 1/10W 5 D.R/TP
		R1815	ORH0752D622	75 1/10W 5 D.R/TP
		R1823	ORH2200D622	220 1/10W 5 D.R/TP
		R1825	ORH0102D622	10 1/10W 5 D.R/TP
		R1826	ORH0102D622	10 1/10W 5 D.R/TP
		R183	ORH1502D622	15K 1/10W 5 D.R/TP
		R1836	ORH3301D622	3.3K 1/10W 5 D.R/TP
		R1837	ORH8200D622	820 1/10W 5 D.R/TP
		R1838	ORH4700D622	470 1/10W 5 D.R/TP
		R1839	ORH0752D622	75 1/10W 5 D.R/TP
		R1842	ORH2203D622	220K 1/10W 5 D.R/TP
		R1844	ORH4700D622	470 1/10W 5 D.R/TP
		R1856	ORH3301D622	3.3K 1/10W 5 D.R/TP
		R1857	ORH8200D622	820 1/10W 5 D.R/TP
		R1858	ORH4700D622	470 1/10W 5 D.R/TP
		R1859	ORH5600D622	560 1/10W 5 D.R/TP
		R186	ORH1502D622	15K 1/10W 5 D.R/TP
		R1860	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1869	ORH5601D622	5.6K 1/10W 5 D.R/TP
		R1870	ORH5600D622	560 1/10W 5 D.R/TP
		R1871	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1880	ORH5601D622	5.6K 1/10W 5 D.R/TP
		R189	ORH1502D622	15K 1/10W 5 D.R/TP
		R192	ORH0822D622	82 1/10W 5 D.R/TP
		R194	ORH0822D622	82 1/10W 5 D.R/TP
		R196	ORH4700D622	470 1/10W 5 D.R/TP
		R199	ORH0822D622	82 1/10W 5 D.R/TP
		R651	ORH2200D622	220 1/10W 5 D.R/TP
		R652	ORH2200D622	220 1/10W 5 D.R/TP
		R653	ORH2200D622	220 1/10W 5 D.R/TP

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		R654	ORH2200D622	220 1/10W 5 D.R/TP
		R656	ORH1000D622	100 1/10W 5 D.R/TP
		R657	ORH1000D622	100 1/10W 5 D.R/TP
		R658	ORH2200D622	220 1/10W 5 D.R/TP
		R659	ORH1000D622	100 1/10W 5 D.R/TP
		R662	ORH0471D622	4.7 1/10W 5 D.R/TP
		R665	ORH0221D622	2.2 1/10W 5 D.R/TP
		R666	ORH0221D622	2.2 1/10W 5 D.R/TP
		R667	ORH0221D622	2.2 1/10W 5 D.R/TP
		R668	ORH0221D622	2.2 1/10W 5 D.R/TP
		R682	ORH1000D622	100 1/10W 5 D.R/TP
		R683	ORH1000D622	100 1/10W 5 D.R/TP
		R690	ORH1000D622	100 1/10W 5 D.R/TP
		R812	ORH1502D622	15K 1/10W 5 D.R/TP
		R813	ORH6801D622	6.8K 1/10W 5 D.R/TP
		R815	ORH1502D622	15K 1/10W 5 D.R/TP
		R816	ORH6801D622	6.8K 1/10W 5 D.R/TP
		R818	ORH1502D622	15K 1/10W 5 D.R/TP
		R819	ORH6801D622	6.8K 1/10W 5 D.R/TP
		R821	ORH0822D622	82 1/10W 5 D.R/TP
		R822	ORH0822D622	82 1/10W 5 D.R/TP
		R823	ORH0822D622	82 1/10W 5 D.R/TP
		R835	ORH1500D622	150 1/10W 5 D.R/TP
		R845	ORH0822D622	82 1/10W 5 D.R/TP
		R846	ORH0822D622	82 1/10W 5 D.R/TP
		R847	ORH0822D622	82 1/10W 5 D.R/TP
		R848	ORH0822D622	82 1/10W 5 D.R/TP
		R849	ORH0822D622	82 1/10W 5 D.R/TP
		R850	ORH0822D622	82 1/10W 5 D.R/TP
		R851	ORH0822D622	82 1/10W 5 D.R/TP
		R855	ORH0752D622	75 1/10W 5 D.R/TP
		R856	ORH0752D622	75 1/10W 5 D.R/TP
		R857	ORH1000D622	100 1/10W 5 D.R/TP
		R858	ORH0822D622	82 1/10W 5 D.R/TP
		R860	ORH0822D622	82 1/10W 5 D.R/TP
		R861	ORH0822D622	82 1/10W 5 D.R/TP
		R863	ORH4700D622	470 1/10W 5 D.R/TP
		R864	ORH4700D622	470 1/10W 5 D.R/TP
		R876	ORH2200D622	220 1/10W 5 D.R/TP
		R877	ORH5601D622	5.6K 1/10W 5 D.R/TP
		R878	ORH2200D622	220 1/10W 5 D.R/TP
		R879	ORH5601D622	5.6K 1/10W 5 D.R/TP
		R880	ORH2200D622	220 1/10W 5 D.R/TP
		R882	ORH2200D622	220 1/10W 5 D.R/TP
		R886	ORH5601D622	5.6K 1/10W 5 D.R/TP
		R888	ORH5601D622	5.6K 1/10W 5 D.R/TP
		R936	ORH6801D622	6.8K 1/10W 5 D.R/TP
		R950	ORH1000D622	100 1/10W 5 D.R/TP
		R951	ORH1000D622	100 1/10W 5 D.R/TP
		R952	ORH2200D622	220 1/10W 5 D.R/TP
		R953	ORH2200D622	220 1/10W 5 D.R/TP
		R954	ORH2200D622	220 1/10W 5 D.R/TP
		R955	ORH2200D622	220 1/10W 5 D.R/TP
		RP102	ORH1502D622	15K 1/10W 5 D.R/TP
		RP104	ORH1502D622	15K 1/10W 5 D.R/TP
		R859	ORN1002F409	10K 1/6W 1 TA52
		L811	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L812	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L813	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L814	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R103	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R104	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R107	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R110	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R112	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R126	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R127	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R129	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R135	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R138	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R140	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R141	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R143	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R164	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R166	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R173	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R174	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R178	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1803	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1804	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1807	ORH1501D622	1.5K OHM 1 / 10 W 2012 5.00%
		R1808	ORH1501D622	1.5K OHM 1 / 10 W 2012 5.00%
		R1811	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1814	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1829	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1834	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1845	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1846	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00%
		R1849	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1852	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00%
		R1862	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1867	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1873	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1878	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1882	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1885	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1886	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1902	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1904	ORH1501D622	1.5K OHM 1 / 10 W 2012 5.00%
		R1906	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1908	ORH1501D622	1.5K OHM 1 / 10 W 2012 5.00%
		R1910	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1911	ORH0432D622	43 OHM 1 / 10 W 2012 5.00% D
		R1926	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00%
		R304	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R601	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R646	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R663	ORH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R679	ORH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R692	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00%
		R703	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R707	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R803	ORH1501D622	1.5K OHM 1 / 10 W 2012 5.00%
		R805	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R826	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R829	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R832	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R838	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R841	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R844	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R865	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R871	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R897	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R901	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R902	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R903	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R904	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R946	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R965	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R966	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R995	0RH0432D622	43 OHM 1 / 10 W 2012 5.00% D
		RP106	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		RP108	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RP109	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		RP111	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R118	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00%
		R123	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R124	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R130	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R131	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R136	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R137	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R142	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R144	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R149	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R150	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R151	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R152	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R153	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R154	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1600	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R179	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R180	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R181	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1824	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R184	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R185	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1854	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R187	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R188	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R190	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R191	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1922	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1923	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1924	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R193	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R195	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R197	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R198	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R300	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R301	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R302	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R303	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R602	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R648	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R649	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R650	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R671	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R672	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R676	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R677	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R681	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R684	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R685	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R686	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R697	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D

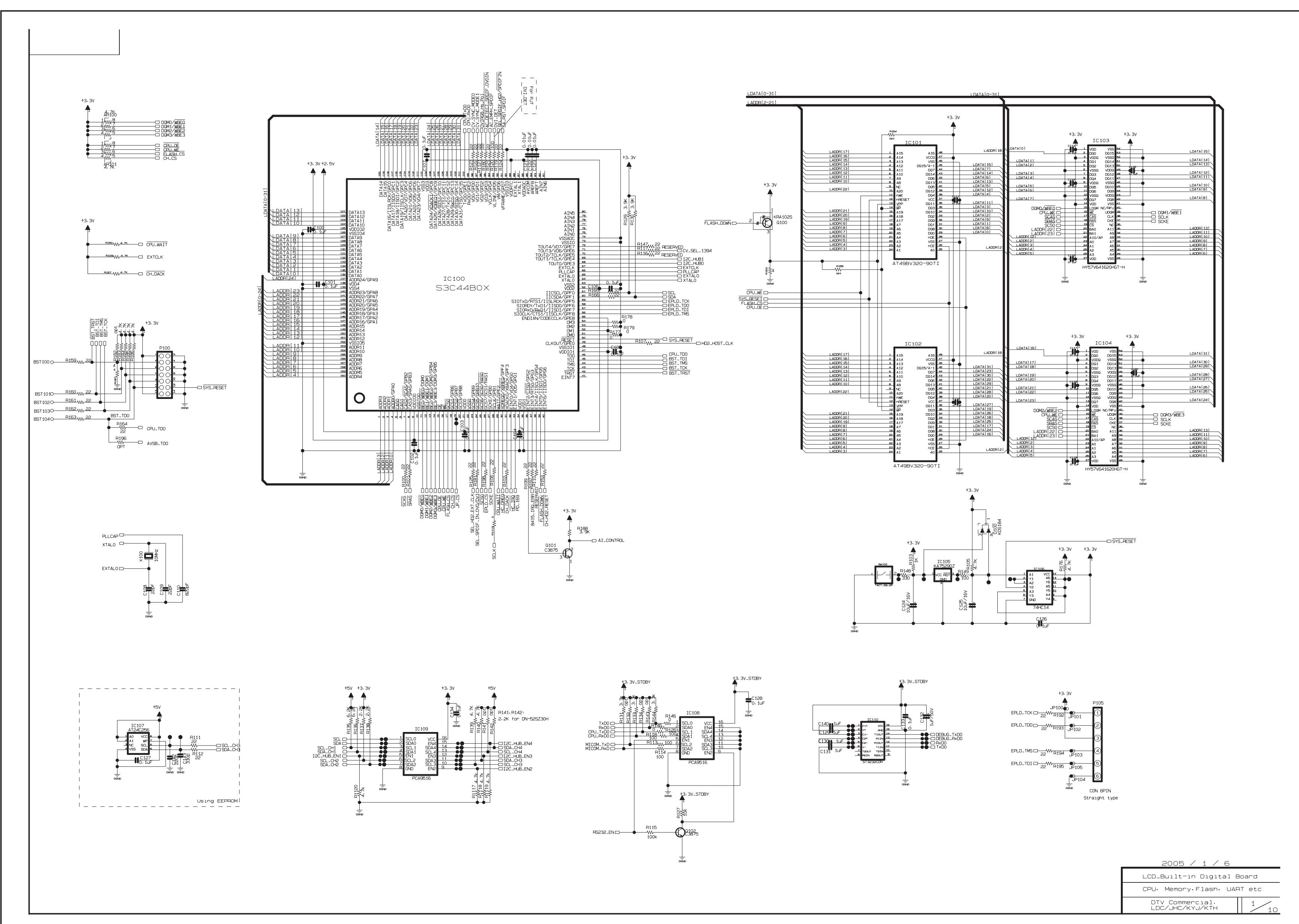
DATE: 2005. 02. 20.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R698	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R802	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R806	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R814	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R817	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R820	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R898	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R900	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R907	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R908	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R909	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R911	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R930	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R931	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R932	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R933	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R934	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R935	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R937	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R938	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R941	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R942	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R947	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R948	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R949	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R975	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R987	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R988	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R989	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R990	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R991	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R992	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R993	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R994	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		RP100	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		RP101	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RP103	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		RP105	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%

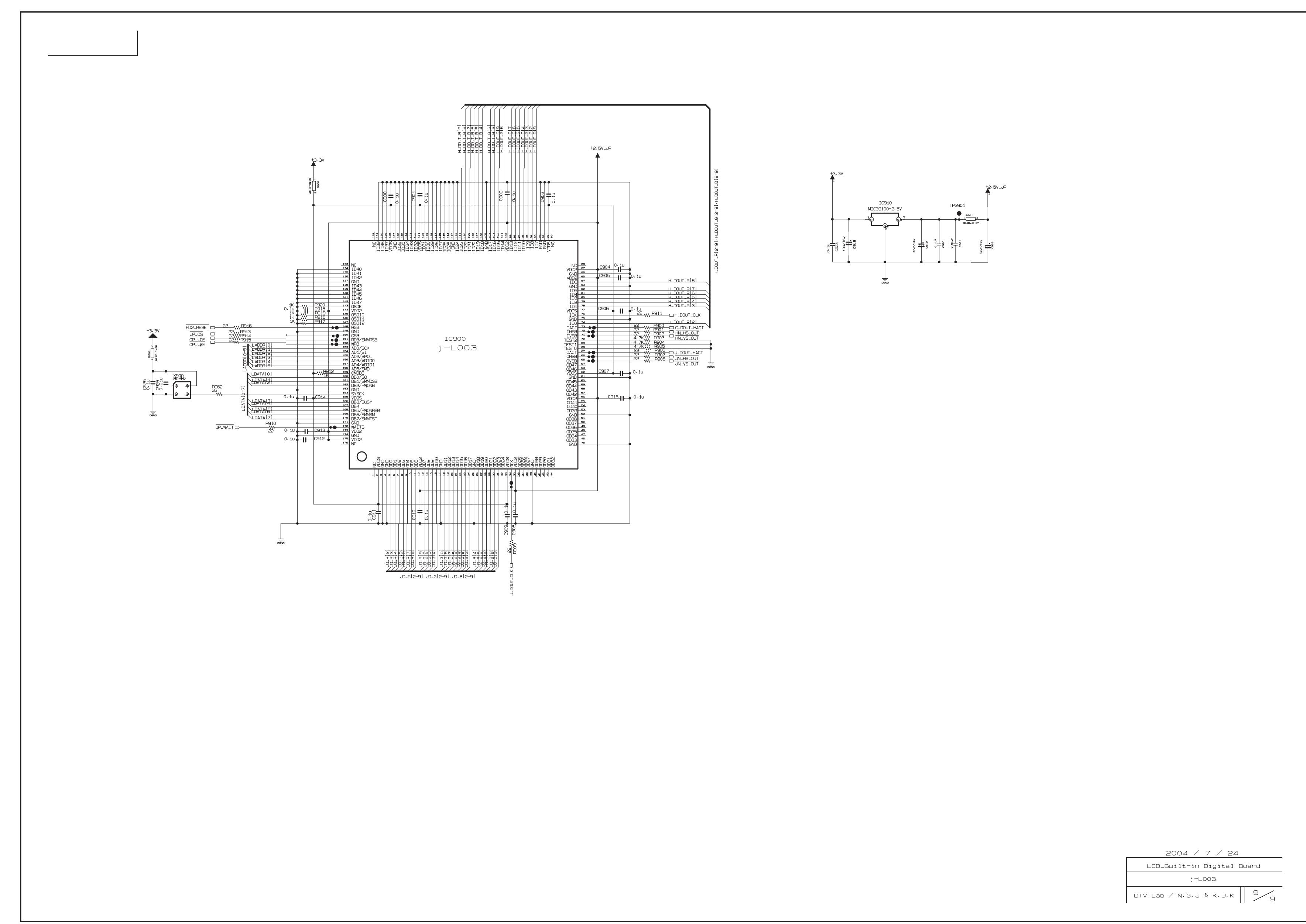
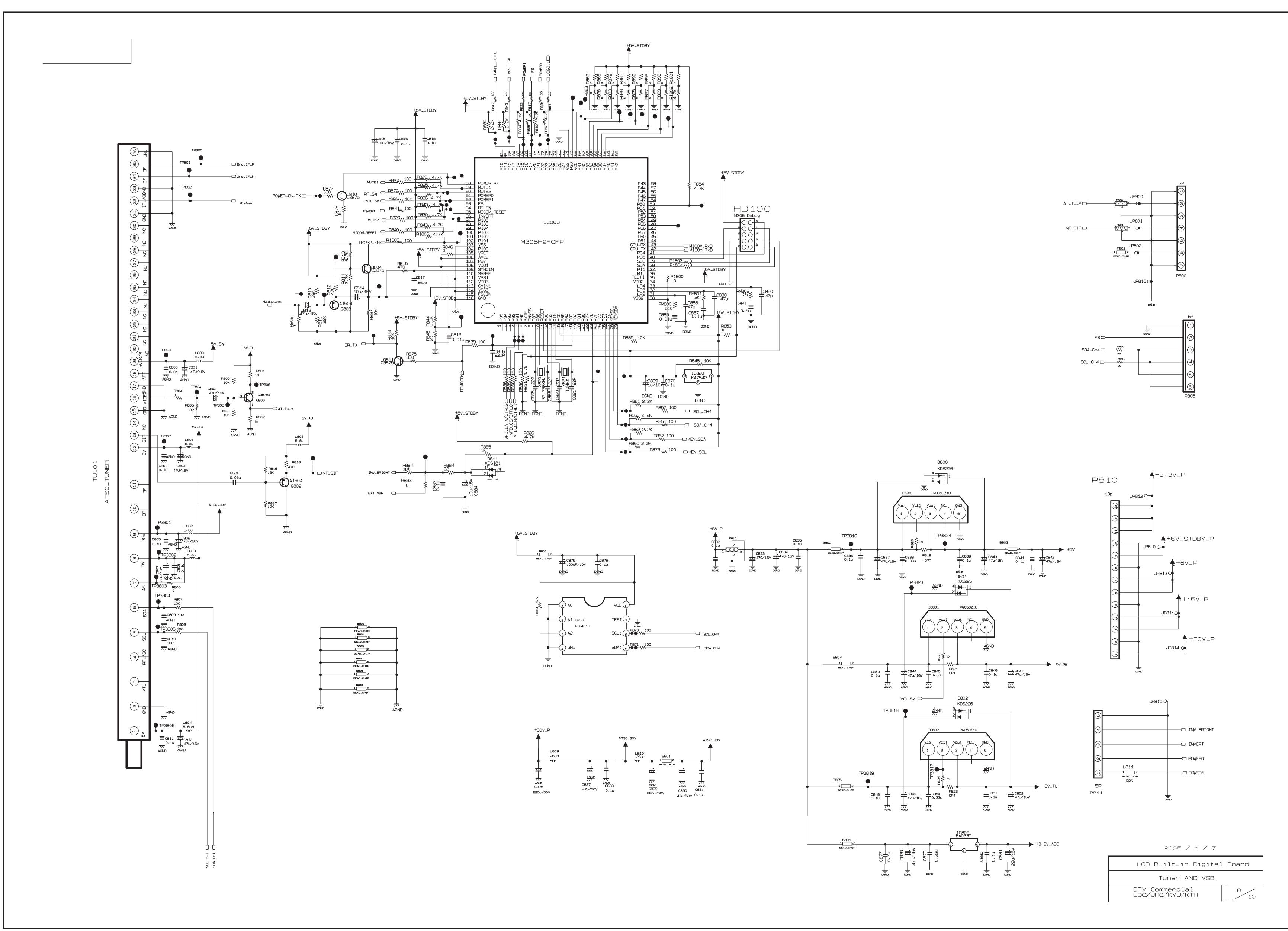
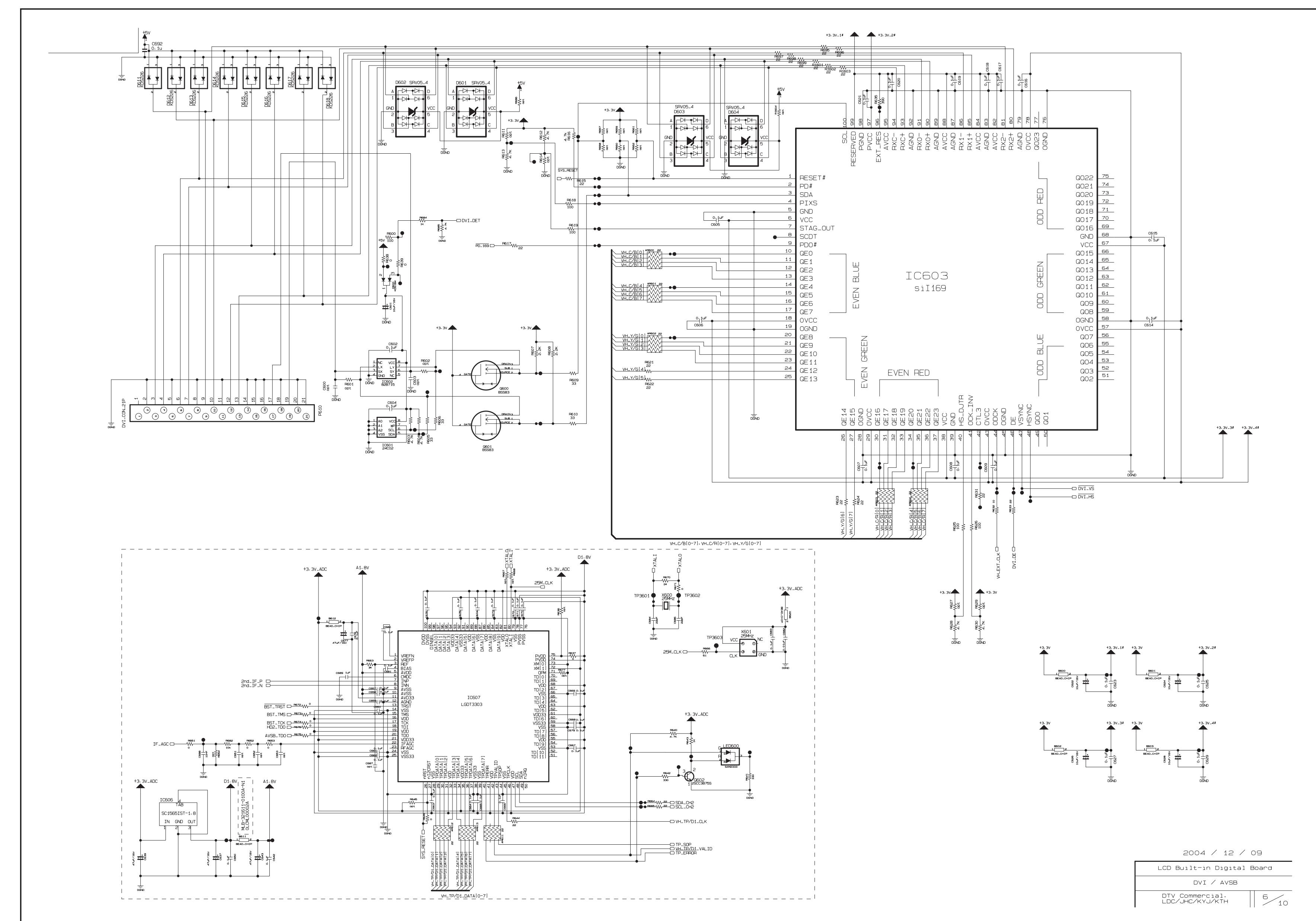
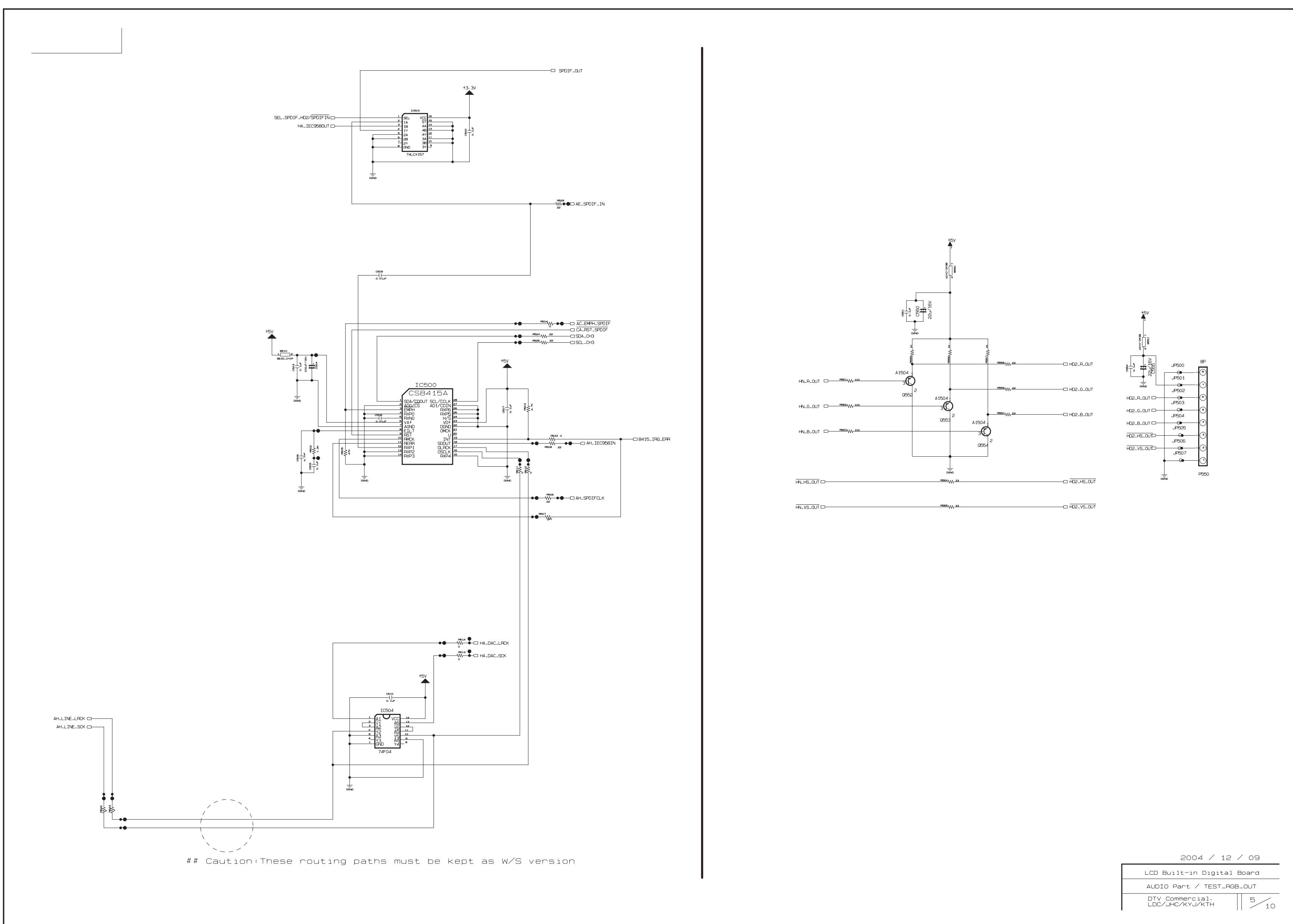
OTHERs				
		LD801	0DL233309AC	SAM2333 TP KWANG GREEN/RED G
		X802	6212AB3004D	CSALF2M69G4ZF01-A3 MURATA 2.
		X801	6212AB2015A	HC-49/SM4H BUBANG 4MHZ +/- 3
		X803	6212AB2015B	HC-49/SM5H BUBANG 20MHZ +/-
		X902	6202VDT002H	SX-1 SUNNY 18.432000MHZ +/-3

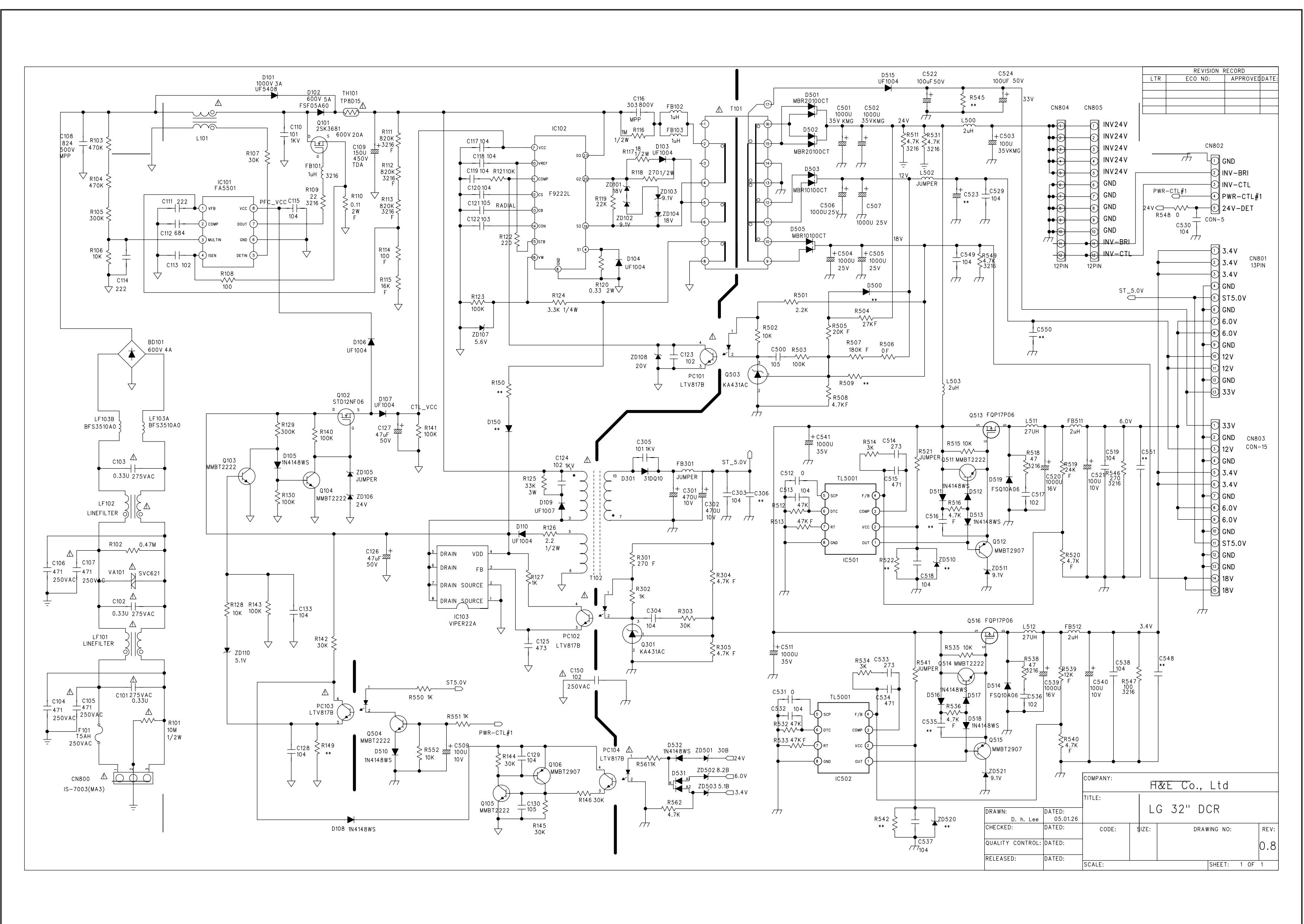
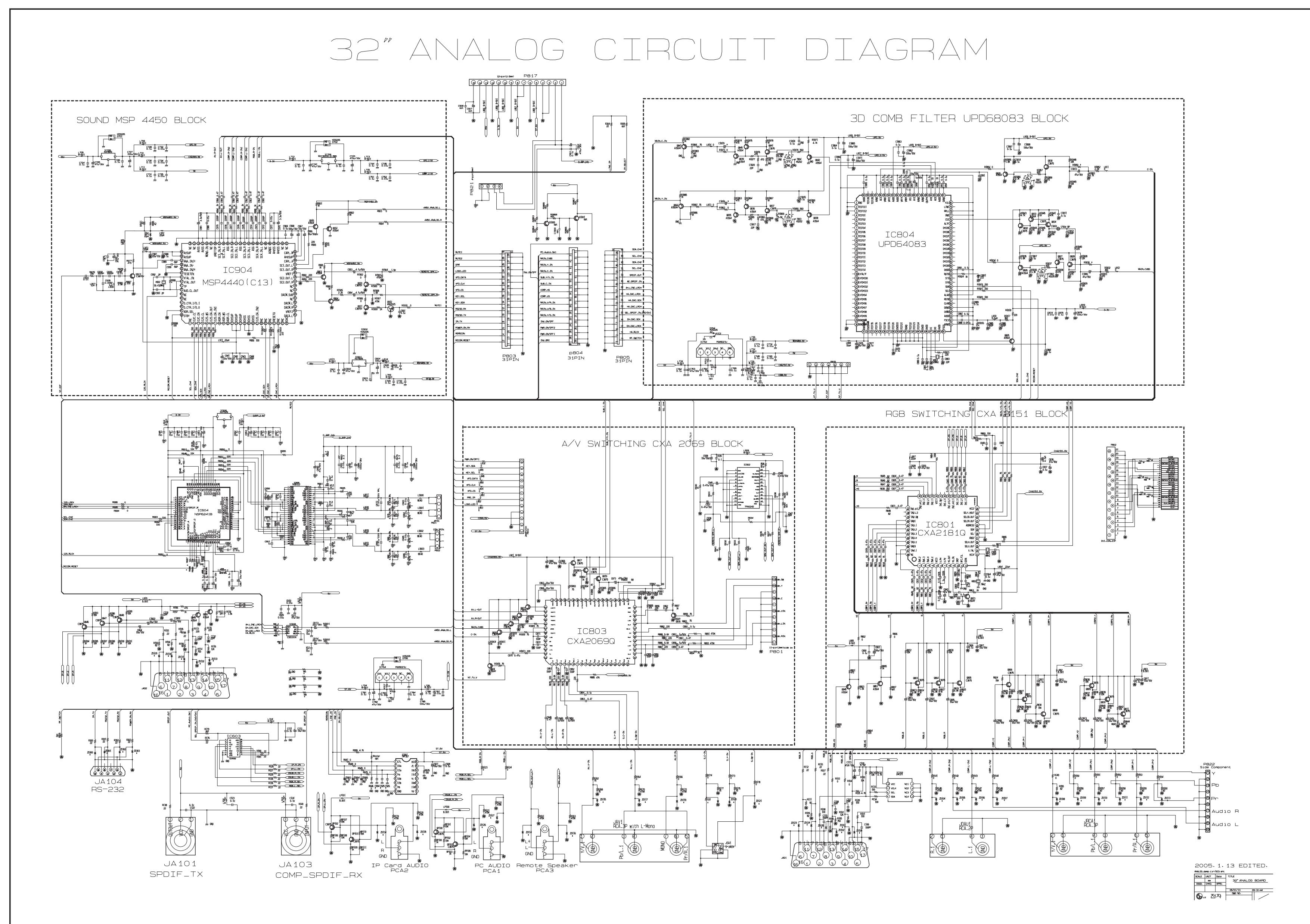
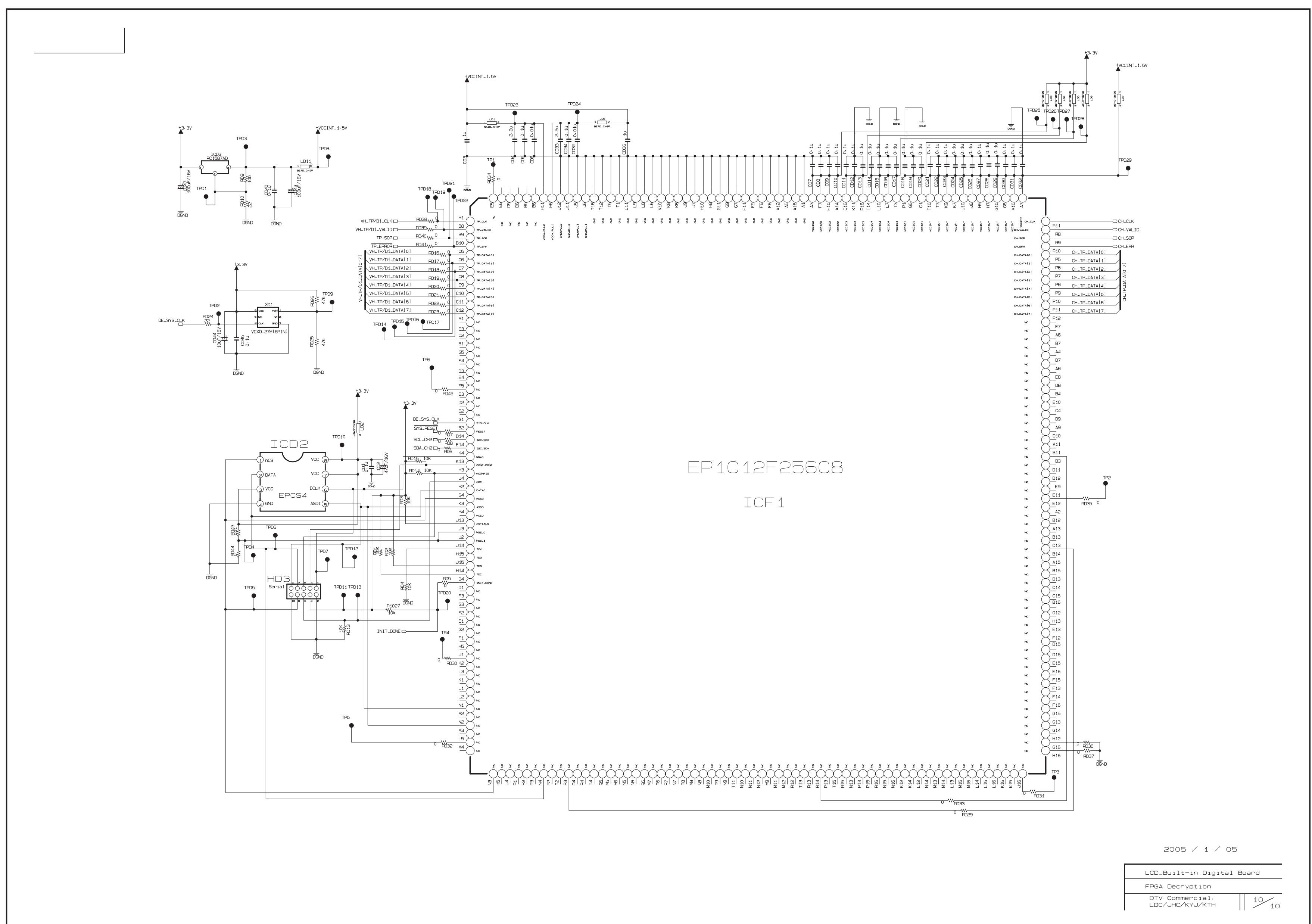
CONTROL BOARD				
		C1001	0CE476DF618	47UF STD 16V M FL TP5
		C2103	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1000	0CN1010K519	100P 50V K B TA52
		L2104	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L2105	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		LS2101	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		LS2102	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		ZD1201	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1202	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1203	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1204	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1205	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1206	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		ZD2101	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD2102	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD2103	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD2104	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD2105	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZDS2101	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZDS2102	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZDS2103	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZDS2104	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZDS2105	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		L1000	OLA0102K119	10UH K 2.3*3.4 TP
		PA1000	6726VV0006J	TSOP2238MQ1 VISHAY 38KHZ MC0
		R2102	ORH0752D622	75 1/10W 5 D.R/TP
		R2104	ORH0752D622	75 1/10W 5 D.R/TP
		R2105	ORH0752D622	75 1/10W 5 D.R/TP
		R2107	ORH4703D622	470K 1/10W 5 D.R/TP
		R2110	ORH4703D622	470K 1/10W 5 D.R/TP
		RS2104	ORH4703D622	470K 1/10W 5 D.R/TP
		RS2105	ORH4703D622	470K 1/10W 5 D.R/TP
		L2101	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L2102	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2101	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2103	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		SW1201	6600R00001B	JTP1289 JEIL 12V DC 1MA VERT
		SW1202	6600R00001B	JTP1289 JEIL 12V DC 1MA VERT
		SW1203	6600R00001B	JTP1289 JEIL 12V DC 1MA VERT
		SW1204	6600R00001B	JTP1289 JEIL 12V DC 1MA VERT
		SW1205	6600R00001B	JTP1289 JEIL 12V DC 1MA VERT
		SW1206	6600R00001B	JTP1289 JEIL 12V DC 1MA VERT
		SW1207	6600R00001B	JTP1289 JEIL 12V DC 1MA VERT
		SW1208	6600R00001B	JTP1289 JEIL 12V DC 1MA VERT
		R1000	971-0016	TIN HDC 0.60H
LED BOARD				
		C1209	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C1215	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C1210	0CE3363F618	33UF SRE 16V M FL TP5
		C1211	0CE3363F618	33UF SRE 16V M FL TP5
		C1212	0CE3363F618	33UF SRE 16V M FL TP5
		C1214	0CE3363F618	33UF SRE 16V M FL TP5
		C1201	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1202	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1203	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1204	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1205	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1206	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1207	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1208	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		L1205	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L1206	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R1210	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R1212	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R1229	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R1233	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R1234	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R1264	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		IC1202	0IKE657830B	KID65783AF 20PIN SOP TRAY TR
		IC1203	0IMI623200B	"M62320FP,I/O EXPANDER 16P SO"
		IC1201	0INE163110A	UPD16311GC-AB6 FIP DRIV 52PQ
		L1201	OLA0102K119	10UH K 2.3*3.4 TP
		L1202	OLA0102K119	10UH K 2.3*3.4 TP
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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		L1207	OLC1032101A	10UH 10% 3216 R/TC FI-C3216-
		L1210	OLC1032101A	10UH 10% 3216 R/TC FI-C3216-
		R1202	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1203	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1204	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1205	ORH0392D622	39 1/10W 5 D.R/TP
		R1208	ORH5100D622	510 1/10W 5 D.R/TP
		R1211	ORH2200D622	220 1/10W 5 D.R/TP
		R1213	ORH1000D622	100 1/10W 5 D.R/TP
		R1216	ORH0392D622	39 1/10W 5 D.R/TP
		R1217	ORH4702D622	47K 1/10W 5 D.R/TP
		R1218	ORH1000D622	100 1/10W 5 D.R/TP
		R1220	ORH1000D622	100 1/10W 5 D.R/TP
		R1221	ORH0392D622	39 1/10W 5 D.R/TP
		R1226	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1228	ORH0392D622	39 1/10W 5 D.R/TP
		R1230	ORH0392D622	39 1/10W 5 D.R/TP
		R1235	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1236	ORH0392D622	39 1/10W 5 D.R/TP
		R1237	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1238	ORH1500D622	150 1/10W 5 D.R/TP
		R1239	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1240	ORH1000D622	100 1/10W 5 D.R/TP
		R1241	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1242	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1243	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1244	ORH1000D622	100 1/10W 5 D.R/TP
		R1245	ORH1000D622	100 1/10W 5 D.R/TP
		R1246	ORH1000D622	100 1/10W 5 D.R/TP
		R1247	ORH1000D622	100 1/10W 5 D.R/TP
		R1248	ORH1000D622	100 1/10W 5 D.R/TP
		R1250	ORH0392D622	39 1/10W 5 D.R/TP
		R1253	ORH0392D622	39 1/10W 5 D.R/TP
		R1257	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1258	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1260	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1261	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1262	ORH1500D622	150 1/10W 5 D.R/TP
		R1263	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1266	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1267	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1268	ORH1500D622	150 1/10W 5 D.R/TP
		R1272	ORH1000D622	100 1/10W 5 D.R/TP
		R1275	ORH3302D622	33K 1/10W 5 D.R/TP
		R1276	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1277	ORH1000D622	100 1/10W 5 D.R/TP
		R1278	ORH1000D622	100 1/10W 5 D.R/TP
		R1287	ORH0392D622	39 1/10W 5 D.R/TP
		R1288	ORH0392D622	39 1/10W 5 D.R/TP
		R1289	ORH0392D622	39 1/10W 5 D.R/TP
		R1290	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1291	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1292	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R1207	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1279	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1280	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1281	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1282	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1283	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1284	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1285	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1286	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1293	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1294	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		Q1201	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1202	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1203	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1204	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1205	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1206	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1207	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1208	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1210	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1211	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1212	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1213	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1214	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1215	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
LOGO42 BOARD				
		LED802	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE 6
		LED804	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE 6
		LED806	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE 6
		LED808	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE 6
		LED810	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE 6
		LED812	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE 6
		C3101	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C3102	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C3103	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C3104	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C3105	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C3106	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C3107	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C3111	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3112	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3113	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3114	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3115	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3116	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3117	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		P1002	6602T12005B	12505WR-03A00 YEONHO 3P 1.25
		Q3101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3103	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3104	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3105	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3106	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3107	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R3101	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R3102	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R3103	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R3104	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R3105	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R3106	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R3107	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R3111	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3112	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3113	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3114	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3115	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3116	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3117	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3120	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP









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